DEUTSCH COLOR

Nature colours, renewal theory
Our humour, energy, creativity and attention are influenced by colours. In nature, in clothing or even in the home environment, psychologists suggest to be attentive to colour therapy. Nature is not only the best place to relax but also the best place where we can “steal” colours from. Colours that we can then use in every element we want.

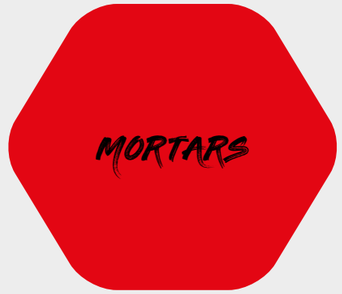
The colours of the earth like brown, beige, camel, orange and their golden nuances are sweet and elegant colours that never come out of fashion. If these colours are combined in the right way, they create a luxurious and stylish ambience.

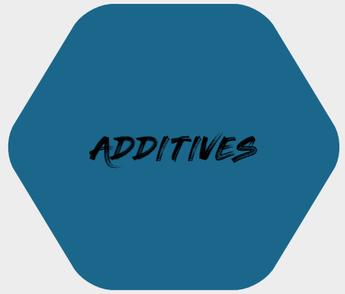
Nature also consists of three basic colours that keep and perceive a special message telling us why we should use it more often.

Yellow, the colour of nature and the sun immediately transmits energy and warmth.
Blue, the colour that represents reflection and meditation, the colour of sky and the sea.
Green, a relaxing colour associated with the colour of the meadows,mountains and nature in general.

The temptation to be close to nature has not escaped designers in the fashion industry each year, advising that these colours be moved to home environments. This incarnation has also been characterized as its renewal by marking these colours as safe, calm and comfortable.

We are all aware of how our surrounding affects our general daily mood, hence the importance of applying the right color to bring out the best in us. Deutschcolor originated in Germany, where it first began to develop and produce paint in 1914. We are proud to share our success of turning a small family run business into a multi-national well known company that has continued to grow at a vast pace. We don't just produce an excellent product. We cater to everyone's needs, including an individual, manufacturer, painter/decorator whether they are of a large firm or private small business. Our advanced technology system and digital laboratory where products are produced, helps us to be one step ahead within our sector, along with passing all the relevant important information to our qualified staff so customers are correctly informed. By developing new ideas and ways to progress forward within our market, our clients are offered the best of our knowledge so we help them get the best result from the product they are enquiring about. Since the launch of Deutschcolor in 1914, to date, we have managed with hard work, passion and continues devotion to achieve a wide range of beautiful products within the construction industry. A great importance goes to research and development, therefore 60% of our profit goes to advance our products and new investments. Deutschcolor production capacity is 500,000 ton and 120 million liters, each year within the construction industry. Deutschcolor has been growing rapidly globally with the aim to be present in all countries worldwide as North Africa, Europe and USA. Our company, transforms, beautifies and helps maintain a surrounding atmosphere around you which is calm and relaxed. We like making a difference and that is exactly what we have been doing for more than 100 years and counting.





DEUTSCH COLOR

Adhesives

FM 1000

Cement-based adhesive, for the adhesion of ceramic tiles.

Product Classification
FM 1000 is classified as C1TE according to EN 12004,
C: cement base,
1: normal adhesion strength,
T: anti-slip,
E: prolonged time of workability

Characteristics
- For indoor and outdoor use in residential environments.
- Good workability
- For ceramic and porcelain fixing in cement-based surfaces.
- For ceramic fixing in gypsum surface after being treated with FM PRIMER.

Recommendations for use
FM 1000 is used for laying ceramic and porcelain tiles, tiles of small dimensions on various surfaces such as: concrete, cement and plaster-based floors. This product is suitable for indoor environments.

APPLICATION PROCEDURE

Surface preparation
Cement-based traditional supports should have a sufficient maturity time (28 days in temperature 23°C and U.R 40%). Supports should be flat, stable and in function of intended use. The support where the product will be applied should be clean and free of external materials, such as: paints, oils, varnishes, anti-adhesion materials.The surface can be cleaned mechanically or manually. Before applying the product, mature the surface for at least one week for it to reach 1 cm thickness. The supports should be mechanically stable, in function of intended use.

Application
For a better application of the product, and for a good and uniform spread, it is recommended that you first lay the product on the support through the straight blade of the trowel, and then through its notched part. The product should be applied with a suitable trowel, depending on the type and dimensions of the tile. It is recommended that after laying the tile, you put pressure on it so that the back part of the tile gets completely saturated. Special conditions, such as: high temperatures or strong winds, sun or substrates with a high absorption of water, affect negatively the performance of the product and can even decrease significantly the spreading and correction time. To avoid these problems, it is recommended to sprinkle the support with water before the application of the product, or to treat it with the liner FM PRIMER. However, in any case, it is important that before the laying of the tiles, you check if the adhesive has created a "skin". In such cases, you should re-spread the adhesive in order to re-activate its adhesive strength. You should avoid pouring water over the adhesive which has created a skin (if solidified) because in such as case,

Technical data	
Form	Powder
Colour	Grey and White
Density	1650 gr/L
Pot life	4 hours
Application temperature:	from +5°C up to +35°C
Open Time EN 1346	≥ 20 minutes
Adjustability period	≥ 30 minutes
Adhesion strength • Normal condition: • After heating reaction in 70°C: • After water immerssion: • After freeze-thaw cycles:	 ≥ 1,10 N/mm² ≥ 0,52 N/mm² ≥ 0,65 N/mm² ≥ 0,54 N/mm²
Temperature rezistance:	from -15°C up to +60°C

an anti-adhesive layer is created. When applying the product in outdoor environments, it is recommended that you spread the product in the back part of the tile and also on the support, to avoid the creation of empty spaces where water can penetrate, which can cause the tiles to detach or break.

Storage
12 months, if preserved in normal environment and in its original packaging, protected by direct exposure to sun and frost.

Consumption: 4-5 Kg/m²

Packaging: 25 Kg paper bags

DEUTSCH COLOR

FM 2000

Cement-based adhesive, for the adhesion of ceramic, gres porcelain and other tiles.

Product Classification
FM 2000 is classified as C2TE according to EN 12004,
C: cement base,
2: improved adhesion strength,
T: resistance to slip,
E: prolonged time of workability

Characteristics
- For indoor and outdoor use.
- For moist environments
- Good workability
- For ceramic, gres, porcelain tiles fixing.
- For ceramic, gres and porcelain tiles fixing in gypsum surface after being treated with FM PRIMER.

Recommendations for use
FM 2000 is used for laying ceramic, gres and porcelain tiles, and tiles of different dimensions on various surfaces such as: concrete, isolating coatings, cement, plaster, old tiles, etc. This product is suitable for indoor and outdoor environments. FM 2000 can also be applied in deformable surfaces, such as: gypsum or wood tiles, under-floor heating when it is reinforced with LATEX additive, which improves technical adhesive parameters.

APPLICATION PROCEDURE

Surface preparation
Cement-based traditional supports should have a sufficient maturity time (28 days in temperature 23°C and U.R 40%). Supports should be flat, stable and in function of intended use. The support where the product will be applied should be clean and free of external materials, such as: paints, oils, varnishes, anti-adhesion materials. The surface can be cleaned mechanically or manually. Before applying the product, mature the surface for at least one week for it to reach 1 cm thickness. The supports should be mechanically stable, in function of intended use.

Application
For a better application of the product, and for a good and uniform spread, it is recommended that you first lay the product on the support through the straight blade of the trowel, and then through its notched part. The product should be applied with a suitable trowel, depending on the type and dimensions of the tile. It is recommended that after laying the tile, you put pressure on it so that the back part of the tile gets completely saturated. Special conditions, such as: high temperatures or strong winds, sun or substrates with a high absorption of water, affect negatively the performance of the product and can even decrease significantly the spreading and correction time. To avoid these problems, it is recommended to sprinkle the support with water before the application of the adhesive, or to treat it with the liner FM PRIMER. However, in any case, before laying the tiles, it is important that you check if the adhesive has created a "skin". In such cases, you should re-spread the adhesive in order to re-activate its

Technical data	
Form	Powder
Colour	Grey and White
Density	1550 gr/L
Pot life	4 hours
Application temperature:	from +5°C up to +35°C
Open Time EN 1346	≥ 30 minutes
Adjustability period	≥ 45 minutes
Adhesion strength • Normal condition: • After heating reaction in 70°C: • After water immerssion: • After freeze-thaw cycles:	 ≥ 1,23 N/mm² ≥ 1,12 N/mm² ≥ 1,05 N/mm² ≥ 1,04 N/mm²
Temperature rezistance:	from -15°C up to +70°C

adhesive strength. You should avoid pouring water on the adhesive which has created a "skin" (if solidified) because in such as case, an anti-adhesive layer is created. When applying the product in outdoor environments, it is recommended that you spread the product in the back part of the tile and also on the support, to avoid the creation of empty spaces where water can penetrate, which can cause the tiles to detach or break.

Storage
12 months, if preserved in normal environment and in its original packaging, protected by direct exposure to sun and frost.

Consumption: 4-5 Kg/m²

Packaging: 25 Kg paper bags

FM 3000

Cement-based and flexible adhesive, for the adhesion of ceramic, gres porcelain tiles, etc.

Product Classification
FM 3000 is classified as C2TE S1 according to EN 12004,
C: cement base,
2: immproved adhesion strength,
T: resistance to slip,
E: prolonged working time
S1: as flexible adhesive.

Characteristics
- For indoor and outdoor use
- For moist areas
- Good workability
- For fixing ceramic, gres, porcelain tiles in hard surfaces, on old existing tiles and under floor heating.
- For fixing ceramic, gres and porcelain tiles in gypsum surface, after being treated with FM PRIMER.

Recommendations for use
FM 3000 is used for laying ceramic, gres and porcelain tiles, and tiles of different dimensions on various surfaces such as: concrete, isolating coatings, cement, plaster, old tiles, etc. This product is suitable for indoor and outdoor use. FM 3000 can also be applied in deformable surfaces, such as: gypsum or wood tiles, under-floor heating, when it is reinforced with LATEX additive; which improves technical adhesive parameters.

APPLICATION PROCEDURE

Surface preparation
Cement-based traditional supports should have a sufficient maturity time of (28 days in 23°C temperature and U.R 40%). Supports should be flat and stable, in function of intended use. The support where the product will be applied should be clean and free of external materials, such as: paints, oils, varnishes, anti-adhesion materials. The surface can be cleaned mechanically or manually. Before applying the product, mature the surface for at least one week for it to reach 1 cm thickness. The supports should be mechanically stable, in function of intended use.

Application
For a better application of the product, and for a good and uniform spread, it is recommended that you first lay the product on the support through the straight blade of the trowel, and then through its notched part. The product should be applied with a suitable trowel, depending on the type and dimensions of the tile. It is recommended that after laying the tile, you put pressure on it so that the back part of the tile gets completely saturated. Special conditions, such as: high temperatures or strong winds, sun or substrates with a high absorption of water, affect negatively the performance of the product and can even decrease significantly the spreading and correction time. To avoid these problems, it is recommended to sprinkle the support with water before the application of the adhesive, or to treat it with the liner FM PRIMER. However, in any case, before laying the tiles, it is important that you check if the adhesive has created a “skin”. In such cases, you should re-spread the adhesive in order to re-activate its adhesive strength. You should avoid pouring water on the adhesive which has created a “skin” (if solidified) because in such a case, an anti-adhesive layer is created. When applying the product in outdoor environments, it is recommended that you spread the product in the back part of the tile and also on the support, to avoid the creation of empty spaces where water can penetrate, which can cause the tiles to detach or break.

Technical data	
Form:	Powder
Colour:	Grey and White
Density	1550 gr/L
Pot life	4 hours
Application temperature:	from +5°C up to +35°C
Open Time EN 1346	≥ 30 minutes
Adjustability period	≥ 45 minutes
Slip	≤ 0,5 mm
Deformability	≤ 0,5 mm
Adhesion strength • Normal condition: • After heating reaction in 70^{0}C: • After water immerssion: • After freeze-thaw cycles:	 ≥ 2,51 N/mm² ≥ 2,22 N/mm² ≥ 1,95 N/mm² ≥ 1,94 N/mm²
Temperature rezistance:	from -30°C up to +90°C

Storage
12 months, if preserved in normal environment and in its original packaging, protected from direct exposure to sun and frost.

Consumption: 4- 5 Kg/m^2

Packaging: 25 Kg paper bags

FM BOND 88

Cement based flexible adhesive for the adhesion of ceramic, gres porcelain and other tiles.

Product Classification
FM BOND 88 is classified as C2TE S2 according to EN 12002,
C: cement base,
2: immproved adhesion strength,
T: resistance to slip,
E: prolonged working time.
S2: high flexible adhesive

Characteristics
- For indoor and outdoor use.
- For moist areas
- Good workability
- For fixing ceramic, gres, porcelain tiles in hard surfaces, on old existing tiles and floors with central heating.
- For fixing ceramic, gres and porcelain tiles on gypsum surfaces, after being treated with FM PRIMER.
- Suitable for pools.

Recommendations for use
FM BOND 88 is used for laying ceramic, gres and porcelain tiles, and tiles of different dimensions on various surfaces, such as: concrete, isolating coatings, cement, plaster, old tiles, etc. This product is suitable for indoor and outdoor use. FM BOND 88 can also be applied in deformable surfaces, such as: gypsum or wood tiles, floors with central heating, where it is reinforced with LATEX additive; which improves technical adhesive parameters.

APPLICATION PROCEDURE

Surface preparation
Cement-based traditional supports should have a sufficient maturity time (28 days in temperature 23°C and U.R 40%). Supports should be flat, stable and in function of intended use. The support where the product will be applied should be clean and free of external materials, such as: paints, oils, varnishes, anti-adhesion materials. The surface can be cleaned mechanically or manually. Before applying the product, mature the surface for at least one week for it to reach 1 cm thickness. The supports should be mechanically stable, in function of intended use.

Application
For a better application of the product, and for a good and uniform spread, it is recommended that you first lay the product on the support through the straight blade of the trowel, and then through its notched part. The product should be applied with a suitable trowel, depending on the type and dimensions of the tile. It is recommended that after laying the tile, you put pressure on it so that the back part of the tile gets completely saturated. Special conditions, such as: high temperatures or strong winds, sun or substrates with a high absorption of water, affect negatively the performance of the product and can even decrease significantly the spreading and correction time. To avoid these problems, it is recommended to sprinkle the support with water before the application of the adhesive, or to treat it with the liner FM PRIMER. However, in any case, before laying the tiles, it is important that you check if the adhesive has created a “skin”. In such cases, you should re-spread the adhesive in order to re-activate its adhesive strength. You should avoid pouring water on the adhesive which has created a “skin” (if solidified) because in such a case, an anti-adhesive layer is created. When applying the product in outdoor environments, it is recommended that you spread the product in the back part of the tile and also on the support, to avoid the creation of empty spaces where water can penetrate, which can cause the tiles to detach or break.

Technical data	
Form:	Powder
Colour:	Grey and White
Density	1550 gr/L
Pot life	4 hours
Application temperature:	from +5°C up to +35°C
Open Time EN 1346	≥ 30 minutes
Adjustability period	≥ 45 minutes
Slip	≤ 0,5 mm
Adhesion strength • Normal condition: • After heating reaction in 70^{0}C: • After water immerssion: • After freeze-thaw cycles:	 ≥ 1,53 N/mm² ≥ 1,42 N/mm² ≥ 1,55 N/mm² ≥ 1,34 N/mm²
Temperature rezistance:	from -15°C up to +60°C

Storage
12 months, if preserved in normal environment and in its original packaging, protected from direct exposure to sun and frost.

Consumption: 4- 5 Kg/m^2

Packaging: 25 Kg paper bags

FM 5000

Thixotropic, elastic, ready to use adhesive; its base consists of the water dispersion of polyacrylic esters and special additives.

Product Classification
FM 5000 is classified as D2TE according to EN 12004,
D: dispersion base,
2: improved adhesive strength,
T: resistance to slip.
E: extendet open time and

Characteristics
Thixotropic, elastic, ready to use adhesive; its base consists of the water dispersion of polyacrylic esters and special additives. It is resistant to moisture, diluted acids, alkaline surfaces (concrete, plaster), and does not affect materials that are sensitive towards diluents. It has a long lifetime, and is sufficient for layers of big surfaces by creating excellent adhesion in varnished surfaces and in rough surfaces too. It shows great initial and final resistance in adhesion. It is ranked in D2TE category according to EN 12004.

Recommendations for use
FM 5000 is suitable for adhering tiles, rolo (page 48) with a soft PVC, stadium grass, LINOLEUM and carpet in prefabricated concrete, but not mortar floors, mosaics, MDF floor, marine or wood plywood, in liner or galvanized metal sheets. It is perfect for lying thermal isolation tiles of inflated or laminated polyester, polyurethane and plug panels (polyurethane and cork panels, page 48) in concrete, plaster, porobeton masonry, in indoor and outdoor surfaces. It is suitable for an isolated lying of ceramic tiles in wood and its products. It is also offered for mounting in environments where there is significant movement, such as hospitals, hotels, and in environments with vibrations, such as ships, etc.

APPLICATION PROCEDURE
Cement-based traditional supports should have a sufficient maturity time of (28 days in 23°C temperature and U.R 40%). Supports should be flat and stable, in function of intended use. The support where the product will be applied should be clean and free of external materials, such as: paints, oils, varnishes, anti-adhesion materials. Cleaning is made mechanically or manually. Before the application of the product, the plasters should have a maturity time of at least 1week for 1 cm of thickness. The supports should be mechanically stable, in function of intended use. The surface of the support where the product will be applied should be free of any type of external material.

Application
The adhesive is laid only in one layer as it is, through a metallic notched, 3-5mm wide spatula, in horizontal or vertical surfaces. Then, you comb as much of the surface as you need to work for the next 30-40 minutes, analogously to weather conditions, thus avoiding the creation of adhesive “skin”. The products which will be attached are laid in a way to allow the possibility of doing micro-repairs, by exerting slight pressure on them.

Technical data	
Form	Paste
Colour	White
Application temperature	from +5°C up to +35°C
Temperature rezistance:	from - 3°C up to +60°C
The open time of the application	about 40 minutes
Micro-repair time	about 3-5 heures
Horizontal sliding	≤ 0,5 mm
Breaking strength after 7 days	1,5 N/mm²
Specific weight	1,72 Kg/Lt

Storage
It is preserved in its original, well-closed packaging, in dry, shady and low-moist environments, for at least 12 months from the date of its production

Consumption: 1.5 Kg/m²/mm thickness

Packaging: 5 Kg / 25 Kg plastic buckets

FM MARBLE

Cement-based and flexible adhesive, for the adhesion of marble and granite tiles.

Product Classification
FM MARBLE is classified as C2TE according to EN 12004,
C: Cement base,
2: immproved adhesion strength,
T: resistance to slip,
E: prolonged working time.

Characteristics
- For indoor and outdoor use
- For moist and dry areas
- Good workability
- For fixing marble and granite tiles in hard surfaces, on old existing tiles and tiles on under floor heating.
- For fixing marble and granite tiles in gypsum surface, after being treated with FM PRIMER.

Recommendations for use
FM MARBLE is used for laying marble and granite tiles, and tiles of different dimensions on various surfaces such as: concrete, isolating coatings, cement, plaster, old tiles, etc. This product is suitable for indoor and outdoor use.

APPLICATION PROCEDURE

Surface preparation
Cement-based traditional supports should have a sufficient maturity time of (28 days in 23°C temperature and U.R 40%). Supports should be flat and stable, in function of intended use. The support where the product will be applied should be clean and free of external materials, such as: paints, oils, varnishes, anti-adhesion materials. The surface can be cleaned mechanically or manually. Before applying the product, mature the surface for at least one week for it to reach 1 cm thickness. The supports should be mechanically stable, in function of intended use.

Application
For a better application of the product, and for a good and uniform spread, it is recommended that you first lay the product on the support through the straight blade of the trowel, and then through its notched part. The product should be applied with a suitable trowel, depending on the type and dimensions of the tile. It is recommended that after laying the tile, you put pressure on it so that the back part of the tile gets completely saturated. Special conditions, such as: high temperatures or strong winds, sun or substrates with a high absorption of water, affect negatively the performance of the product and can even decrease significantly the spreading and correction time. To avoid these problems, it is recommended to sprinkle the support with water before the application of the adhesive, or to treat it with the liner FM PRIMER. However, in any case, before laying the tiles, it is important that you check if the adhesive has created a “skin”. In such cases, you should re-spread the adhesive in order to re-activate its adhesive strength. You should avoid pouring water on the adhesive which has created a “skin” (if solidified) because in such a case, an anti-adhesive layer is created. When applying the product in outdoor environments, it is recommended that you spread the product in the back part of the tile and also on the support, to avoid the creation of empty spaces where water can penetrate, which can cause the tiles to detach or break.

Technical data	
Form	Powder
Color	White
Density	1550 gr/L
Pot life	4 hours
Application temperature:	from +5°C up to +35°C
Open time EN 1346	≥ 30 minutes
Adjustability period	≥ 45 minutes
Glissement	≤ 0,5 mm
Adhesion strength • Normal condition: • After heating reaction in 70⁰C: • After water immerssion: • After freeze-thaw cycles:	 ≥ 1,53 N/mm² ≥ 1,43 N/mm² ≥ 1,51 N/mm² ≥ 1,44 N/mm²
Temperature rezistance:	entre -30°C et +90°C

Storage
12 months, if preserved in normal environment and in its original packaging, protected from direct exposure to sun and frost.

Consumption: 4- 5 Kg/m²

Packaging: 25 Kg paper bags

DEUTSCH COLOR

FM STONE

Cement-based, flexible adhesive, for the adhesion of natural stone tiles.

Product Classification
FM STONE is classified as C2TE according to EN 12004,
C: Cement base,
2: immproved adhesion strength,
T: resistance to slip,
E: prolonged working time.

Characteristics
- For indoor and outdoor use
- For moist and dry areas
- Good workability
- For fixing natural stone tiles in floors and facades.

Recommendations for use
FM STONE is used for laying ceramic, gres and porcelain tiles, tile of different dimensions on various surfaces such as: concrete, isolating coatings, cement, plaster, old tiles, etc. This product is suitable for indoor and outdoor use. FM STONE can also be applied in deformable surfaces, such as: gypsum or wood tiles, central heating floors when it is reinforced with LATEX additive, which improves technical adhesive parameters.

APPLICATION PROCEDURE

Surface preparation
Cement-based traditional supports should have a sufficient maturity time (28 days in temperature 23°C and U.R 40%). Supports should be flat, stable and in function of intended use. The support where the product will be applied should be clean and free of external materials, such as: paints, oils, varnishes, anti-adhesion materials. The surface can be cleaned mechanically or manually. Before applying the product, mature the surface for at least one week for it to reach 1 cm thickness. The supports should be mechanically stable, in function of intended use.

Application
For a better application of the product, and for a good and uniform spread, it is recommended that you first lay the product on the support through the straight blade of the trowel, and then through its notched part. The product should be applied with a suitable trowel, depending on the type and dimensions of the tile. It is recommended that after laying the tile, you put pressure on it so that the back part of the tile gets completely saturated. Special conditions, such as: high temperatures or strong winds, sun or substrates with a high absorption of water, affect negatively the performance of the product and can even decrease significantly the spreading and correction time. To avoid these problems, it is recommended to sprinkle the support with water before the application of the adhesive, or to treat it with the liner FM PRIMER. However, in any case, before laying the tiles, it is important that you check if the adhesive has created a “skin”. In such cases, you should re-spread the adhesive in order to re-activate its adhesive strength. You should avoid pouring water on the adhesive which has created a “skin” (if solidified) because in such a case, an anti-adhesive layer is created. When applying the product in outdoor environments, it is recommended that you spread the product in the back part of the tile and also on the support, to avoid the creation of empty spaces where water can penetrate, which can cause the tiles to detach or break.

Technical data

Form	Powder
Color	Grey and White
Density	1550 gr/L
Pot life	4 hours
Application temperature:	from +5°C up to +35°C
Open time EN 1346	≥ 30 minutes
Adjustability period	≥ 45 minutes
Slip	≤ 0,5 mm
Adhesion strength after 28 days: • Normal condition: • After heating reaction in 70°C: • After water immerssion: • After freeze-thaw cycles:	 ≥ 1,73 N/mm² ≥ 1,63 N/mm² ≥ 1,59 N/mm² ≥ 1,56 N/mm²
Temperature rezistance:	from -30°C up to +90°C

Storage
12 months, if preserved in normal environment and in its original packaging, protected from the direct exposure to sun and frost.

Consumption: 4- 5 Kg/m²

Packaging: 25 Kg paper bags

DEUTSCH COLOR

FM RAPID 180

Cement-based, fast drying adhesive, for the adhesion of ceramic, gres porcelain and other tiles.

Product Classification
FM RAPID 180 is classified as C2F according to EN 12004,
C: cement,
2: immproved adhesion strength,
F: fast final drying.

Characteristics
- For indoor and outdoor use.
- For moist and dry areas
- Good workability
- For fixing ceramic, gres, porcelain tiles.
- For fixing ceramic, gres and porcelain tiles in gypsum surfaces, after it is treated with FM PRIMER.

Recommendations for use
FM RAPID 180 is used for laying ceramic, gres and porcelain tiles, and tiles of different dimensions on various surfaces such as: concrete, isolating coatings, cement, plaster, old tiles, etc. This product is suitable for indoor and outdoor use. FM RAPID 180 can also be applied in deformable surfaces, such as: gypsum or wood tiles, under- floor heating, where it is reinforced with ADMIX S2 additive; which improves technical adhesive parameters.

APPLICATION PROCEDURE

Surface preparation
Cement-based traditional supports should have a sufficient maturity time (28 days in temperature 23°C and U.R 40%). Supports should be flat, stable and in function of intended use. The support where the product will be applied should be clean and free of external materials, such as: paints, oils, varnishes, anti-adhesion materials. The surface can be cleaned mechanically or manually. Before applying the product, mature the surface for at least one week for it to reach 1 cm thickness. The supports should be mechanically stable, in function of intended use.

Application
For a better application of the product, and for a good and uniform sprea, it is recommended that you first lay the product on the support through the straight blade of the trowel, and then through its notched part. The product should be applied with a suitable trowel, depending on the type and dimensions of the tile. It is recommended that after laying the tile, you put pressure on it so that the back part of the tile gets completely saturated. Special conditions, such as: high temperatures or strong winds, sun or substrates with a high absorption of water, affect negatively the performance of the product and can even decrease significantly the spreading and correction time. To avoid these problems, it is recommended to sprinkle the support with water before the application of the adhesive, or to treat it with the liner FM PRIMER. However, in any case, before laying the tiles, it is important that you check if the adhesive has created a “skin”. In such cases, you should re-spread the adhesive in order to re-activate its adhesive strength. You should avoid pouring water on the adhesive which has created a “skin” (if solidified) because in such a case, an anti-adhesive layer is created. When applying the product in outdoor environments, it is recommended that you spread the product in the back part of the tile and also on the support, to avoid the creation of empty spaces where water can penetrate, which can cause the tiles to detach or break.

Technical data

Form	Powder
Color	Grey
Density	1550 gr/L
Pot life	1 hours
Application temperature:	from +5°C up to +35°C
Open time EN 1346	≥ 10 minutes
Adjustability period	≥ 25 minutes
Slip	≤ 0,5 mm
Adhesion strength after 28 days: • Normal condition: • After heating reaction in 70°C: • After water immerssion: • After freeze-thaw cycles:	 ≥ 1,73 N/mm² ≥ 1,63 N/mm² ≥ 1,59 N/mm² ≥ 1,56 N/mm²
Temperature rezistance:	from -30°C up to +90°C

Storage
12 months, if preserved in normal environment and in its original packaging, protected from direct exposure to sun and frost.

Consumption: 4- 5 Kg/m²

Packaging: 25 Kg paper bags

EPOBOND 300

Two component, epoxy base, tile adhesive, free of solvents. It is characterized by high resistance to compression, flexural and adhesive strength. EPOBOND 300 is resistant to some acids, alkalis, corrosive concrete agents, cleaning agents, sea water and salt water.

Product Classification
EPOBOND 300 is classified as R2T tile adhesive, according to EN 12004 standard with improved adhesive strength and without vertical slip.

Characteristics
• The product is characterized by outstanding workability
• Easily cleaned with water before the solidification of the product.

Recommendations for use
EPOBOND 300 is applied in those environments where high strength to mechanical loads and resistance to chemical agents is required. The product is used for adhering and fixing tiles in industrial environments such as: breweries, dairies, laboratories, slaughterhouses and in other sectors of food or chemical industry, as well as swimming pools, kitchens etc. It is suitable for fixing tiles in different surfaces, such as concrete, mortar, metal, wood, etc. It can also be used for filling joints up to 6 mm wide.

APPLICATION PROCEDURE

Surface preparation
The surface should be dry, clean, stable, slightly rough and free of materials that prevent adhesion, such as: dust, oils etc. If necessary, the surface should be pre-prepared by washing, roughening, etc. In cases of walls, they should be rubbed with a wire brush.

Product preparation
Component A (resin) and component B (solidifier) are supplied in two separate buckets in a predetermined proportion to weight ratio. The whole quantity of component B should be added to component A. Stir the two components for about 5 minutes, using a low speed agitator (300 rotations/ min). It is important to stir well in the edges and bottom of the bucket to achieve a thorough mixture and a uniform distribution of the solidifier.

Application

As Adhesive
The product should be applied using a notched screed to achieve a uniform opening of the product in the entire surface. Tiles are placed on top of the material by pressing and moving them until they reach the desired position.

As Grout
Joints should be clean and dry. Apply the product through a rubber screed in a diagonal direction with the direction of the joint; this way, you will achieve a complete filling and will remove the excess material. After EPOBOND 300 has dried enough, the excess quantity on the tiles is removed by using a wet and smooth sponge. Finally clean the surface with a clean sponge and lukewarm water. If necessary add 10% solvent into the water to make the cleaning easier.

Storage
24 months from the production date, if preserved in its original closed packaging, in environments protected by moisture and direct exposure to sun. Storage temperature should be between +5°C and +35°C.

Technical data	
Form:	Comp A Paste Comp B Gel
Colour:	White
Grain size:	0,6 mm
Density:	Comp A 1,75gr/ml Comp B 1,15gr/ml
Density (A+B):	1,65 gr/ml
Mixing ratio:	8A : 2B
Solid content:	Comp A 100% Comp B 100%
Application temperature:	from +5^{0}C up to+35^{0}C
Application thickness:	up to10 mm
Pot life:	minimum 45 min
Open time:	40 min
Correction time:	120 min
Compressive strength:	65 MPa
Flexural strength:	37 MPa
Adhesion strength:	
• Normal condition: • After water immersion: • After heat reaction:	11 MPa 9 MPa 6 MPa
Chemical resistance:	High resistance
Temperature rezistance:	from -30^{0}C up to +90^{0}C

Consumption: 1.5 Kg/m^2/mm thickness

Packaging: 5 Kg / 15 Kg plastic buckets. The bucket of B component is inserted in the container of A component.

DEUTSCH COLOR

EPOFAST 360

Free of solvents. It is characterized by high resistance to compression, flexion and adhesive strength. Epofast 360 is resistant to some acids, alkalis, corrosive concrete agents, cleaning agents, sea water and salt water.

Product Classification
EPOFAST 360 is classified as R2FT tile adhesive, according to EN 12004 standard, with improved adhesive strength, fast drying time and without vertical slip.

Characteristics
• Outstanding workability,
• Easily cleaned with water before the solidification of the product.

Recommendations for use
EPOFAST 360 is applied in those environments where high strength to mechanical loads and resistance to chemical agents is required. The product is used for adhering and fixing tiles in industrial environments such as: breweries, dairies, laboratories, slaughterhouses and in other sectors of food or chemical industry, as well as swimming pools, kitchens etc. It is suitable for fixing tiles in different surfaces, such as concrete, mortar, metal, wood, etc. It can also be used for filling joints up to 6 mm wide.

APPLICATION PROCEDURE

Surface preparation
The surface should be dry, clean, stable, slightly rough and free of materials that prevent adhesion, such as: dust, oils etc. If necessary, the surface should be pre-prepared by washing, roughening, etc. In cases of walls, they should be rubbed with a wire brush.

Product preparation
Component A (resin) and component B (solidifier) are supplied in two separate buckets in a predetermined proportion to weight ratio. The entire quantity of component B is added to component A. Stir the two components for about 5 minutes, using a low speed agitator (300 rotations/ min). It is important to stir well in the edges and bottom of the bucket to achieve a full mixture and a uniform distribution of the solidifier.

Application

As Adhesive
The product should be applied using a notched screed to achieve a uniform opening of the product in the entire surface. Tiles are placed on top of the material by pressing and moving them until they reach the desired position.

As Grout
Joints should be clean and dry. Apply the product through a rubber trowel in a diagonal direction with the direction of the joint; this way, you will achieve a complete filling and will remove the excess material. After EPOFAST 360 has dried enough, the excess quantity on the tiles is removed by using a wet and smooth sponge. Finally clean the surface with a clean sponge and lukewarm water. If necessary add 10% solvent into the water to make the cleaning easier.

Technical data	
Form:	Comp A Paste Comp B Gel
Colour:	White
Grain size:	0,6 mm
Density:	Comp A 1,75gr/ml Comp B 1,75gr/ml
Density (A+B):	1,75 gr/ml
Mixing ratio:	1A : 1B
Solid content:	Comp A 100% Comp B 100%
Application temperature:	from +5^{0}C up to +35^{0}C
Application thickness:	up to 30 mm
Pot life:	5 min
Open time:	5 min
Correction time:	7 min
Compressive strength:	68 MPa
Flexural strength:	41 MPa
Adhesion strength:	
• Normal condition: • After water immersion: • After heat reaction:	10 MPa 9 MPa 7 MPa
Chemical resistance:	High resistance
Temperature rezistance:	from - 30^{0}C up to +90^{0}C

Storage
24 months from the production date, if preserved in its original closed packaging, in environments protected by moisture and direct exposure to sun. Storage temperature should be between +5˚C and +35˚C.

Consumption: 1.5 Kg / m^2 / mm thickness

Packaging: 1 Kg / 5 Kg plastic buckets. The bucket of B component is inserted in the container of A component.

TB 400

Prepared, grey and white cement-based mortar, composed from Protland Cement with excellent qualities, carbonate stone filler with selected granulometry, synthetic resins and special additives, which improve the workability, adhesion and increase the hydrophobicity of the dry mortar.

Recommendations for use
TB 400 serves for the adhesion of all types of panels that are generally used for the realization of thermal insulation systems, such as: styrofoam, graphite, mineral fibers panels in brick walls, concrete or cement-based mortar.

APPLICATION PROCEDURE

Surface preparation
The supports must be compact, seasoned and steady, without cracks, oils, paints or detachable parts. Check to see if the bricks are securely attached and do not have parts that can detach. If there are such parts, remove them and repair surface with mortar. Walls that are coated with grout must be scraped in order to verify if the surface under it, was painted with old and badly attached paints, or if there are detachable parts. Powdered surfaces should be treated with MEGAGRUND Liquid primer. Superficial cracks can be caulked with TB 400, while deep structural cracks should be treated in a way to eliminate the causes and the possibility of repetition. If the surface is not flat or straight, it should be flattened or made straight using MEGAGRUND.

Application
In order to achieve a steady installation, before you start to adhere panels, it is necessary to fix metallic profiles as leveling fasteners. For installations in irregular surfaces, such as unplastered brick walls, the adhesive is applied with a trowel, by putting it as a tape at the edges of the panels', and some drops in its center (or forming an X in the center of the panel) in a certain thickness to compensate unevenness. For applications in flat surfaces, it is recommended to spread the adhesive in the entire surface of the panel through e notched trowel (from 8 up to 10 mm). Caution must be paid to the surface covered with adhesive, which should be at least 40 % of the total panel surface. Panels should be installed in horizontal direction, starting from from the bottom and continuing up. Caution to the panels' joints; do not leave empty spaces or unevenness. Then, proceed with the mechanic fixation of wall anchors (for usual panels 50 x 100 cm, it is recommended to pour 8 adhesive drops for meter square). The above data are applicable in temperatures from (23 ±2°C) and in (50 ±5) % relative humidity. Lower temperatures prolong the time of maturity and solidifying.

Storage
12 months, if stored in normal environments and in its original packaging, protected from direct exposure to the sun and frost.

Consumption: 4- 5 Kg/m^2

Packaging: 25 Kg paper bags

Technical data

Form:	Powder
Colour:	Grey and White
Grain size:	0,8 mm
Water demand:	6.5 l/25 Kg
Application temperature:	from +5^{0}C up to+35^{0}C
Application thickness:	up to15 mm
Pot life:	minimum 4 hours
Open time:	35 min
Correction time:	40 min
Module of elongation:	6 MPa
Compressive strength(EN 998-1):	15 MPa
Flexural Strength (EN 998-1):	4,5 MPa
Adhesion strength (EN 998-1):	0,8 MPa
Capilarity water absorption (EN 1015-18):	0,35 Kg/m^2•min0.5 Category W1
Adhesion strength after 28 days according EN 12004:	
• Normal condition:	≥ 1,23 N/mm^2
• After heating reaction in 70˚C:	≥ 1,12 N/mm^2
• After water immerssion:	≥ 1,15 N/mm^2
• After freeze-thaw cycles:	≥ 1,24 N/mm^2
Temperature rezistance:	from -30^{0}C up to +90^{0}C

DEUTSCH COLOR

TB 800

Prepared, grey and white cement-based mortar, composed from Portland Cement with excellent qualities, carbonate stone filler with selected granulometry, synthetic resins and special additives, which improve the workability, adhesion, flexibility and increase the hydrophobicity of the dry mortar.

Recommendations for use
TB 800 serves for the adhesion and then for the leveling of all types of panels that are usually used for the realization of thermal insulation systems, such as: styrofoam, polyurethane, wool stone, wool glass, graphite, mineral fibers in brick walls, concrete or cementbased mortar. TB 800 is a pre-prepared, gray or white, cement-based, Portland material of excellent quality, with carbonate stone sand of selected granulometry, synthetic resins and special additives, which improve the workability, adhesiveness on rough surfaces and increase the hydrophobicity of the strengthened mortar against rains. The leveling of the panels should be made in two layers, combining those with glass- fibers mesh, which is resistant to alkali.

APPLICATION PROCEDURE

Surface preparation
The supports must be compact, seasoned and steady, without cracks, oils, paints or detachable parts. Check to see if the bricks are securely attached and do not have parts that can detach. If there are such parts, remove them and repair surface with mortar. Walls that are coated with grout must be scraped in order to verify if the surface under it was painted with old and badly attached paints, or if there are detachable parts. Powdered surfaces should be treated with primer MEGAGRUND. Superficial cracks can be caulked with TB 800, while deep structural cracks should be treated in a way to eliminate the causes and the possibility of repetition.

Application
In order to achieve a steady installation, before you start to adhere panels, it is necessary to fix metallic profiles as leveling fasteners. For installations in irregular surfaces, such as unplastered brick walls, the adhesive is applied with a trowel, by putting it as a tape at the edges of the panels', and some drops in its center (or forming an X in the center of the panel) in a certain thickness to compensate unevenness. For applications in flat surfaces, it is recommended to spread the adhesive in the entire surface of the panel through e notched trowel (from 8 up to 10 mm). Caution must be paid to the surface covered with adhesive, which should be at least 40 % of the total panel surface. Panels should be installed in horizontal direction, starting from the bottom and continuing up. Caution to the panels' joints; do not leave empty spaces or unevenness. Then, proceed with the mechanic fixation of wall anchors (for usual panels 50 x 100 cm, it is recommended to pour 8 adhesive drops for meter square). The above data are applicable in temperatures from (23 ±2°C) and in (50 ±5) % relative humidity. Lower temperatures prolong the time of maturity and solidifying.

Storage
12 months, if stored in normal environments and in its original packaging, protected from direct exposure to the sun and frost.

Technical data

Form:	Powder
Colour:	Grey and White
Grain size:	0,8 mm
Water demand:	6.5 l/25 Kg
Application temperature:	from +5^{0}C up to +35^{0}C
Application thickness:	up to 35 mm
Pot life:	minimum 4 hours
Open time:	35 min
Correction time:	45 min
Module of elongation:	8 MPa
Compressive strength(EN 998-1):	20 MPa
Flexural Strength (EN 998-1):	5,5 MPa
Adhesion strength (EN 998-1):	0,85 MPa
Capilarity water absorption (EN 1015-18):	0,15 Kg/m^2• min0.5 Category W2
Adhesion strength after 28 days according EN 12004:	
• Normal condition:	≥ 1,27 N/mm^2
• After heating reaction in 70^{0}C:	≥ 1,32 N/mm^2
• After water immerssion:	≥ 1,35 N/mm^2
• After freeze-thaw cycles:	≥ 1,41 N/mm^2
Temperature rezistance:	from - 30^{0}C up to +90^{0}C

Consumption: 4- 5 Kg/m^2

Packaging: 25 Kg paper bags

RFM 800

Refractory mortar, with cement, synthetic resins and special additives for environments of high temperatures.

Characteristics
- Cement-based powder
- For environments with high temperatures
- High mechanical resistance,
- For fillings of a thickness of 20 mm/ layer.
- It does not contract
- It provides an excellent workability, adhesiveness, resistance to high temperatures and strikes.
- Thanks to its hydraulic connections, special polymers, selected inerts and synthetic fibers, it does not crack nor slip in large thicknesses.

Recommendations for use
RFM 800 is applied in all of those environments where a high resistance to temperatures is required, such as: furnaces, fireplaces, etc.

APPLICATION PROCEDURE

Surface preparation
The bricks and surface where the product will be applied should be stable and mechanically resistant.

Application
Mix, 25 Kg powder with 5,5 liters of clean water and stir with a low speed agitator or concrete mixer until you see the creation of a homogeneous mixture, suitable for any type of use. The mixture remains workable for 3 hours and is applied through a trowel for masonry or plasters.

Storage
12 months, if stored in normal environments and in its original packaging, protected from direct exposure to the sun and frost.

Consumption: Approximately 18 Kg/m^2 /cm thickness of layer.

Packaging: 25 Kg paper bags

Technical data

Form-Colour	Powder Grey
Toxicity - Flammability (according to EN 88/379)	No
Specific gravity of dry powder	1,47 ± 0,05 Kg/L
Specific gravity of wet powder	2,00 ± 0,05 Kg/L
Maximum particle diameter	1,5 mm
Water demand	5.5 lt of water for 25 kg of powder
Application temperature:	from +5°C up to +35°C
Temperature resistance	from -30°C up to +1000°C
Pot life	3 hours
Maximum application thickness	2 cm

DEUTSCH COLOR

WA 500

Fast drying, water-based adhesive for wooden floors, free of solvents.

Characteristics
- WA 500 is a synthetic, fast drying, water emulsion-based and with low water content adhesive
- WA 500 solidifies even in temperatures near freezing. However, application is recommended in temperatures above +10°C.
- WA 500 has a high adhesiveness, which makes it possible to use the surface after 24 hours
- After water evaporation, WA 500 reaches a high level of flexibility and adhesiveness, and is resistant to hygrometric movements.
- WA 500 is completely resistant to mold and bacteria, thanks to the special layers it contains.

APPLICATION PROCEDURE

Surface preparation
Surface must be completely dry, absorbent, leveled, mechanically stable, and free of dust, loose particles, paint, wax, oil, rust, and traces of gypsum. The moisture content should be lower than the maximum specified by the manufacturers of parquet. Check moisture throughout the thickness of the layer, using a hygrometer. Floating layers on the isolation, facilitated layers and tiles should be equipped with a vapor barrier to prevent moisture condensation.

Application of product
Mix the adhesive before using it. If you see the formation of a superficial skin, remove it in any case and re-apply.. WA 500 is applied on surfaces through a notched trowel, suitable for parquets. Service life of WA 500 product is maximally 30 minutes in normal conditions of temperature and moisture. Environment temperature should be higher than +10°C. Before installation, check if the moisture level in wood and environment are as described by the manufacturer. During the mounting of the parquet exert weight on the parquet to ensure a better absorption of the adhesive. During installation of the parquet, leave a space of approximately 1 cm around the perimeter, columns, and every other element exiting at the floor.

Storage
24 months if stored in a cool environment, in its original and closed packaging.

Consumption:
Depending on the type of trowel
600 - 800 g/m² by using a 4 mm-notch trowel.
800 - 1000 g/m² by using a 6 mm-notch trowel.

Packaging: 5 Kg / 15 Kg plastic buckets

Technical data

Form:	Paste
Colour:	Beige
Density:	1,35 Gr/ml
Solid content:	70%
Application temperature:	from +10^{0}C up to +35^{0}C
Application thickness:	up to 4 mm
Open time:	40 Min
Correction time:	30 Min
Violation time after application:	24 hours
Varnish apllication:	10 Days
Adhesion strength: • Normal condition: • After water immersion: • After heat reaction:	 3,4 Mpa 2,1 Mpa 2,2 Mpa
Chemical resistance:	Very Good
Temperature rezistance:	from -30^{0}C up to +90^{0}C

WA 600 2K

Bi-component, polyurethane-based, with very low emission of volatile organic compounds, VOCs adhesive for all types of parquets.

Characteristics
- WA 600 2K is a bi-component adhesive.
- WA 600 2K solidifies even in temperatures near freezing. However, its application is recommended in temperatures above +10°C.
- WA 600 2K has a high adhesiveness, which makes it possible to use the surface after 24 hours.
- WA 600 2K reaches a high level of flexibility and adhesion and is resistant to hygrometric movements.
- WA 600 2K is completely resistant to mold and bacteria, thanks to the special layers it contains.
- Not classified as dangerous material.

APPLICATION PROCEDURE

Surface preparation
Surface must be completely dry, absorbent, leveled, mechanically stable, and free of dust, loose particles, paint, wax, oil, rust, or traces of gypsum. Humidity content should be lower than the maximum specified by the manufacturer of the parquet. Check humidity throughout the thickness of the layer, using a hygrometer. Floating layers on the isolations or facilitated layers and tiles should be equipped with a vapor barrier to prevent humidity condensation.

Application
Mix the adhesive before using it. If you see the creation of a superficial skin, remove it in any case and re-apply.. WA 600 2K is applied on surfaces through a notched trowel, suitable for parquets. Service life of WA 600 2K product is maximally 30 minutes in normal conditions of temperature and humidity. Environment temperature should be higher than +10°C. Before installation, check if humidity level in wood and environment are as described by the manufacturer. During the mounting, exert weight on the parquet to ensure a better absorption of the adhesive. During installation of the parquet, leave a space of approximately 1 cm around the perimeter, columns, and every other element present at the floor.

Storage
24 months if stored in a cool environment, in its original and closed packaging.

Depending on the type of trowel
600 - 800 g/m² by using a 4 mm-notch trowel.
800 - 1000 g/m² by using a 6 mm-notch trowel.

Consumption: 1- 1.5 Kg/m²

Packaging: 5 Kg / 15 Kg plastic buckets

Technical data	
Form:	Component A Paste Component B Gel
Colour:	Beige
Density:	Component A 1,35gr/ml Component B 1,05gr/ml
Density (A+B):	1,25 gr/ml
Mixing ratio:	9A : 1B
Solid content:	Component A 80% Component B 100%
Application temperature:	from +5^{0}C up to +35^{0}C
Application thickness:	up to 4mm
Pot life:	Minimum 60 min
Open time:	50 min
Correction time:	120 min
Adhesion strength: • Ne Normal condition: • After water immersion: • After heat reaction:	 4.3 MPa 3.9 MPa 3.6 MPa
Chemical resistance:	High resistance
Temperature rezistance:	from -20^{0}C up to +70^{0}C

DEUTSCH COLOR

PU 800

Adhesive for the adhesion of linoleum flooring, water-based and free of solvents.

Characteristics
- PU 800 is a synthetic, water-based emulsion adhesive, and free of VOC-s.
- PU 800 ensures a high adhesion even in the early stages of application.
- PU 800 reaches a high level of flexibility and adhesiveness.
- PU 800 ensures high adhesiveness in any type of support.

APPLICATION PROCEDURE

Surface preparation
Surface must be completely dry, absorbent, leveled, mechanically stable, and free of dust, loose particles, paint, wax, oil, rust, and traces of gypsum. The moisture content should be lower than the maximum specified by the manufacturers of parquet, 2 - 3% for cement-based floors and 0.5% for anhydrous-based floors. Check moisture throughout the thickness of the layer, using a hydrometer. Floating layers on the insulations, facilitated layers and tiles should be equipped with a vapor barrier to prevent moisture condensation.

Application
Mix the adhesive before using it. If you see the formation of a superficial skin, remove it in any case an re-apply. PU 800 is applied on surfaces through a notched trowel, suitable for parquets. Working time of the PU 800 product is maximally 30 minutes in normal temperatures and levels of humidity. Environment temperature should be higher than +10°C.

Storage
24 months if stored in a dry environment, in its original and unopened packaging.

Depending on the type of trowel
600 - 800 g/m² by using a 4 mm-notch trowel.
800 - 1000 g/m² by using a 6 mm-notch trowel.

Consumption: 1- 1.5 Kg/m²

Packaging: 5 Kg / 15 Kg plastic buckets

Technical data	
Form:	Paste
Colour:	Cream
Density:	1,25 gr / ml
Solid content:	70%
Application temperature:	from +10^{0}C up to +35^{0}C
Application thickness:	up to 1 mm
Open time:	20 min
Waiting time before adjusting:	10 min
Violation time after application:	24 heures
Adhesion strength: • Ne Normal condition: • After water immersion: • After heat reaction:	 2,4 MPa 1.1 MPa 1,2 MPa
Chemical resistance:	Très bien
Temperature rezistance:	from - 10°C up to + 60°C

PVC ADHESIVE

Strong adhesive for PVC plastic pipes.

Characteristics
- Strong adhesive for PVC plastic pipes
- For water supply and sewage pipes.
- Resistant to temperature changes, cold and hot water, vibrations and time.
- The stable and ideal density of PVC adhesive seals the gaps that get created during the installation of equipments, thus ensuring their unbreakable attachment.
- Attached to the cap, it has a special spherical paintbrush
- Does not peel.

Recommendations for use
PVC ADHESIVE is suitable for bonding water supply pipes, sewage pipes and pool pipes with a diameter up to 400 mm and with a resistance up to a pressure of 16 Atm. It is possible to bond PVC pipes side to side.

APPLICATION PROCEDURE

Surface preparation
Clean the sides of the pipes that are going to be coated with adhesive, from dust and oils with a clean cloth. For a better adhesion, it is recommended to clean the surface beforehand.

Application of product
Spread a uniform adhesive layer on both surfaces without delay (the maximum waiting time is 2 minutes) and unite the parts that are going to e bonded. It is important for the parts of the pipes to stay stable for at least for 15 minutes. Test under water pressure after 24 hours. Close the packaging very well after usage.

Storage
18 months if stored in a well closed packaging and kept in dry and shady places, protected from any source of heat.

Consumption: 250 ml/m^2 layer.

Packaging: 250ml / 500 ml drum bottles with 12 pieces

Technical data	
Form:	Thick liquid
Colour:	Transparent / Grey / Orange
Density:	1,05 gr/ml
Solid content:	20%
Application temperature:	from +10^{0}C up to +35^{0}C
Open time:	3 min
Correction time:	10 min
Resistance on preasure:	up to 16 atm

DEUTSCH COLOR

GRIFF L45

Wallpaper adhesive based on high-quality cellulose

Characteristics
- Does not clump
- Non-staining
- Easy to apply
- Easily correctable
- Super-strong
- Ready for use within 15 minutes
- Airtight packaging
- pH-neutral
- Moisture resistant

Recommendations for use
Suitable for applying all types of light, medium and heavy wallpaper, including paper, simplex, duplex and acrylic wallpaper.

APPLICATION PROCEDURE

Application method: Brush, roller, airless spray

Diluent: Water

Water demand: 10 Liters

Application
Surfaces must be clean, dry and free from all defective and poorly adhering material, dust, dirt, oils and salts. Add the powder in small quantities to cold water while vigorously stirring until the mixture is homogenized and lump-free. Let the created paste to rest and stir up vigorously again after 10 minutes. It will be then ready to use. Coat the wallpaper strips thoroughly and evenly with a fur roller or brush, making sure the edges are properly covered. Fold the strips in doubles and allow the paste to soak in following the instructions of the wallpaper manufacturer. Apply a strip of paper to the wall and brush it smooth using a plastic spatula or brush. Always smooth the wallpaper from the centre to the edges, and from top to bottom. Make sure that the seams are properly pressed against each other. Tools are cleaned immediately after the application with soap and water.

Storage
24 months, stored in a closed box and normal storing conditions.

Consumption: 0.1 Kg/m^2

Packaging: 0.25 Kg plastic boxs

Technical data	
Base:	Celuloze
Density after preparation:	1,05±0,02 Gr/ml
Form:	Powder
Opening rate:	Up to 15 m² / liter By layer
Workability time:	20 ± 5 Minutes (Drying time may increase in low temperatures and high relative humidity)
pH:	7,5±1
Color:	White, translucent after drying

DEUTSCH COLOR

FM PRIMER

Acrylic, resin-based primer

Recommendations for use
FM PRIMER can be applied as a primer layer in various supports, such as: old tiles, smooth surfaces, natural stones, floor surfaces of cement, wood and metal. It is used to give the support the desired qualities before the application of cement-based tiles adhesive.

Instructions for preparation
The surface where FM PRIMER will be applied must be free of moisture, dust and oils.

Application
FM PRIMER is ready for use, and is applied directly to the support with a roller or brush. Tile adhesive can be applied after an hour, as long as FM PRIMER is sticky.

Storage
18 months if stored in its original packaging and protected by frost and direct exposure to sun.

Consumption: 0.2- 0.3 Kg/m^2

Packaging: 1Kg / 5Kg / 10Kg plastic bottles

Technical data	
Form:	Liquid
Color:	Yellow
Density:	1,05 Kg/l
pH:	7
Solid content:	30%
Viscosity:	30 MPa.s

DEUTSCH COLOR

Tile Grouts

PROFESSIONAL W11

Cement based tile grout, with selected granulometry and highly resistant to water for filling joints from 0 to 6mm.

Characteristics
- It is a powder, cement-based material, with natural stone powder of selected granulometry, synthetic resins, hydrophobic additives and coloring pigments.
- Easily cleaned.
- Gives a smooth surface
- Waterproof
- Highly resistant to bases (alkali) and detergents.
- Resistant to corrosion.
- Resistant to UV radiation.
- Prevents the process of fluorescence.
- According to EN 13888 classification, it belongs to CG2-WA category.

Recommendations for use
This product is used for the filling of 0-5 mm joints in porous ceramic, monocotto, bicotto, porcelain and natural stone tiles. It is used to stucco floors, outdoor coatings, where a high impermeability, elasticity and mechanical strength are required; For surfaces with vibrations, for surfaces with swelling and shrinkage (terraces, under-floor heating, pools, fountains, etc.). The product should be reinforced with 500 gr additive diluted in 700 - 1000 ml of water for one PROFESSIONAL W11 bag of 5 Kg.

APPLICATION PROCEDURE

Method of preparation
Mix the powder with clean water in a ratio 1lt/5 kg. Add the ADMIX S2 additive directly to the mixture and stir with a low-revolution electric agitator, until you get a homogeneous mixture. Rest the mixture for 10 minutes and stir again before the application.

Method of application
Spaces between tiles are easily filled using a rubber screed. Removal of the remaining material should be made with a wet sponge in the moment when PROFESSIONAL W11 has reached the required stability and consistency (this consistency is achieved about 20 minutes after the application of PROFESSIONAL W11). The final cleaning of the tiles is made with a dry cloth. The final cleaning can also be made the following day, when the material has solidified; in this case, use an appropriate cleaning cloth.

Storage
24 months, if stored in its original packaging and protected by frost and direct exposure to sun.

Consumption: 0.2- 1 Kg/m^2

Packaging: 2 Kg / 5Kg plastic buckets

Technical data	
Form:	Powder
Colour:	30 Colour, second baton colors
Grain size:	0,2 mm
Water demand:	1.5 l/5 Kg
Application temperature:	nga +5^{0}C up to +35^{0}C
Grout joint:	up to 5 mm
Pot life:	minimum 3 hours
Waiting time for washing:	20 Min
Violation time after application:	24 hours
Compressive strength: • Normal condition: • After freeze-thaw cycles:	 32 Mpa 29 MPa
Flexural strength: • Normal condition: • After freeze-thaw cycles:	 5,5 MPa 5,2 MPa
Abrasion resistance:	725 mm^3
Water absorption after 30 min:	1,3 Gr
Water absorption after 240 min:	3,4 Gr
Shrinkage:	0,9 mm / m
Temperature rezistance:	from -30^{0}C up to +90^{0}C

DEUTSCH COLOR

PRESTIGE 2K

Two component material. Component A is a cement-based. Component B is an elastomeric-based liquid.

Characteristics
Two component material. Component A is a cement-based, natural stone, synthetic resins and special pigments powder; component B is an elastomeric-based liquid for high resistance in compression and flexion, and high resistant towards chemical agents and washing detergents.

Joints preparation
The surface should be covered with tiles and the spaces between them should be completely clean. If the tiles are attached with adhesive,fill after 8-12 hours in walls and 24-36 hours in floors. If the tiles are attached with preprepared cement-based mortar, fill the joints after 2-3 days in walls and after 8-10 in cases of flooring.

Method of preparation
First, mix 200gr of B component with 300 - 500 ml clean water, and then add A component in powder form. Stir with a low-revolution electric agitator, until you get a homogeneous mixture. Rest the mixture for 5 minutes and then stir for another minute before its application.

Method of application
Apply the product with a soft rubber spatula. Excessive filler can be removed through a wet sponge after PRESTIGE 2K 0 - 5 mm has reached a sufficient solidification (usually, after 15-20 minutes after its application). Wall or floor cleaning is made through a dried cloth CG2 - S2 or a woolen cloth when the filler is fully solidified. Cleaning can also be made a day after the application of the joints filler.

Temperature of application
PRESTIGE 2K 0-5 mm is recommended to be applied at temperatures from +5°C at +35°C.

Consumption: 0.2- 1 Kg/m^2

Packaging: 2.2 Kg plastic buckets

Technical data	
Form:	Component A Powder Component B Liquid
Colour:	30 colors, second baton colors
Grain size:	0,2 mm
Water demand:	0,7 l/2 Kg + Component B
Application temperature:	from +5^{0}C up to +35^{0}C
Joint width:	up to 5 mm
Pot life:	minimum 2 hours
Waiting time for washing:	15 Min
Violation time after application:	24 hours
Compressive strength: • Normal condition: • After freeze-thaw cycles:	 36 MPa 32 MPa
Flexural strength: • Normal condition: • After freeze-thaw cycles:	 6,5 MPa 6,2 MPa
Abrasion resistance:	551 mm^3
Water absorption after 30 min:	0,3 Gr
Water absorption after 240 min:	1,4 Gr
Shrinkage:	1,3 mm / m
Temperature rezistance:	from -30^{0}C up to +90^{0}C

INTENSE

Tile grout, with selected granulometry and with a high resistance against water; it serves for the filling of 0 - 8 mm joints.

Characteristics
- It is a powder, cement-based material, with natural stone powder of selected granulometry, synthetic resins, hydrophobic additives and coloring pigments.
- Excellent workability and distribution.
- Easily cleaned.
- Its final result is a smooth surface
- Waterproof
- High resistance against bases (alkali) and detergents.
- Resistant to corrosion.
- Resistant to UV radiation.
- Prevents the process of fluorescence.
- According to EN 13888 classification, it belongs to CG2 category.

Recommendations for use
This product is used for the filling of 0-8 mm joints in porous ceramic, monocotto, bicotto, porcelain and natural stone tiles. It is used to stucco floors, outdoor coatings, where a high impermeability, elasticity and mechanical strength are required; for surfaces with vibrations, for surfaces with swelling and shrinkage (terraces, under-floor heating, pools, fountains, etc.). The product should be reinforced with 500 gr additive ADMIX S2 diluted with 700 - 1000 ml water for one INTENSE bag of 5 Kg.

APPLICATION PROCEDURE

Method of preparation
Mix the powder with clean water in a ratio 1lt/5 kg. Add the ADMIX S2 additive directly to the mixture and stir with a low-revolution electric agitator, until you get a homogeneous mixture. Rest the mixture for 10 minutes and stir again before the application.

Method of application
Apply the product with a soft rubber screed. Removal of the remaining material should be made with a wet sponge in the moment when INTENSE has reached the required stability and consistency (this consistency is achieved about 20 minutes after the application of INTENSE). The final tile cleaning is made with a dry cloth. The final cleaning can also be made the following day, when the material has solidified; in this case, use an appropriate cleaning cloth.

Storage
24 months, if stored in its original packaging and protected by frost and direct exposure to sun.

Technical data	
Form:	Powder
Colour:	30 colors, second baton Colors
Grain size:	0,2 mm
Water demand:	1.5 l/5 Kg
Application temperature:	from +5^{0}C up to +35^{0}C
Joints width:	up to 6 mm
Pot life:	minimum 2 hours
Waiting time for washing:	20 Min
Violation time after application:	24 hours
Compressive strength:	
• Normal condition:	30 MPa
• After freeze-thaw cycles:	25 MPa
Flexural strength:	
• Normal condition:	4,5 MPa
• After freeze-thaw cycles:	3,6 MPa
Abrasion resistance:	849 mm^3
Water absorption after 30 min:	1,8 Gr
Water absorption after 240 min:	4,4 Gr
Shrinkage:	1.1 mm / m
Temperature rezistance:	from -30^{0}C up to +90^{0}C

Consumption: 0.2- 1 Kg/m^2

Packaging: 2 Kg / 5Kg plastic bags

DEUTSCH COLOR

MAXI FUGEN

Cement base tile grout for filling joints, with selected granulometry and high resistance towards water. It serves for the filling of 3 - 20 mm joints.

Characteristics
- It is a powder, cement-based material, with natural stone powder with selected granulometry, synthetic resins, hydrophobic additives and coloring pigments.
- Good workability
- Easily cleaned.
- Its final result is a smooth surface
- Waterproof
- High resistance against bases (alkali) and detergents.
- Resistant to corrosion.
- Resistant to UV radiation.
- Prevents the process of fluorescence.
- According to EN 13888 classification, it belongs to CG2-WA category.

Recommendations for use
This product is used for the filling of 3-20 mm joints in porous ceramic, monocotto, bicotto, porcelain and natural stone tiles. It is used to stucco floors and outdoor coatings, where a high impermeability, elasticity and mechanical strength are required. For surfaces with vibrations, for surfaces with swelling and shrinkage (terraces, under-floor heating, pools, fountains, etc.). The product should be reinforced with 500 gr additive ADMIX S2 diluted in 700 - 1000 ml water for one MAXI FUGEN bag of 5 Kg.

APPLICATION PROCEDURE

Method of preparation
Mix the powder with clean water in a ratio 1lt/5 kg. Add the ADMIX S2 additive directly to the mixture and stir with a low-revolution electric agitator, until you get a homogeneous mixture. Rest the mixture for 10 minutes and stir again before the application.

Method of application
Apply the product with a soft rubber screed. Removal of the remaining material should be made with a wet sponge in the moment when MAXI FUGEN has reached the required stability and consistency (this consistency is achieved about 20 minutes after the application of MAXI FUGEN). The final cleaning of the tiles is made with a dry cloth. The final cleaning can also be made the following day, when the material has solidified with an appropriate cleaning cloth.

Storage
24 months, if stored in its original packaging and protected by frost and direct exposure to sun.

Technical data	
Form:	Powder
Colour:	30 colors, second baton Colors
Grain size:	0,4 mm
Water demand:	1.5 l/5 Kg
Application temperature:	from +5^{0}C up to +35^{0}C
Joints width:	from 3 mm up to 20 mm
Pot life:	minimum 2 hours
Waiting time for washing:	20 Min
Violation time after application:	24 hours
Compressive strength:	
• Normal condition:	35 MPa
• After freeze-thaw cycles:	27 MPa
Flexural strength:	
• Normal condition:	4.9 MPa
• After freeze-thaw cycles:	4.1 MPa
Abrasion resistance:	791 mm^3
Water absorption after 30 min:	1,6 Gr
Water absorption after 240 min:	4,2 Gr
Shrinkage:	0,6 mm/m
Temperature rezistance:	from -30^{0}C up to +90^{0}C

Consumption: 0.2- 1 Kg/m^2

Packaging: 5 Kg plastic bags

3D FUGEN

Two component, epoxy-based tiles grout.

Characteristics
Bi-component stucco with 30 prepared shades, free of diluents, with epoxy-based resins and thin salicyl inserts. It is resistant to acids, alkalis,strong cleaners, most of organic diluents and chlorinated water or salty water. It manifests excellent workability, high adhesion in the sides of the joints and is completely waterproof, without being spotted. It is not absorbing, does not allow bacteria development, is easily cleaned on a daily basis, and it is also resistant to hygiene conditions. It is suitable for joints from 1 - 10 mm wide. The final surface is absolutely smooth, as porcelain. Before solidifying, it is easily cleaned with lukewarm water. The product is classified in RG2 category, according to EN 13888.

Recommendations for use
3D Fugen is suitable for polished granite tiles, wherever esthetics requires white or white color fugue and where the shade will not change due to stains and pollution. It is also used to stucco marble joints, thus preventing water and pollution absorption, contrary to cement-based stucco powders. It is recommended for marble sculptures and mosaics in swimming pools, swimming facilities and public toilets. It replaces the corroded stuccos of cement-based joints in pools, where previously we have pulled out the old layer in 3-4 mm depth. It also attaches excellently every application in marble.

APPLICATION PROCEDURE

Surface preparation
Remove potential remains of the cement-based adhesive and other contaminants from the joints and granite or marble surface.

Application
Joints are filled with a rubber spatula, by opening and pressing it diagonally to the joints, without leaving spaces or residue.

Storage
24 months, if stored in its original packaging, in dry places and protected by frost and direct exposure to sun.

Consumption: 0,2 - 3.0 Kg/m²

Packaging: 3 Kg (A+B) plastic buckets

Technical data	
Form:	Component A Paste Component B Gel
Colour:	30 colors, second baton Colors
Grain size:	0,2 mm
Density:	Component A 1,65 gr/ml Component B 1,05 gr/ml
Density (A+B):	1,54 gr/ml
Mixing ratio:	9A : 1B
Solid content:	Component A 100% Component B 100%
Application temperature:	from +5^{0}C up to +35^{0}C
Joints width:	from 2 mm up to 10 mm
Pot life:	minimum 45 minuta
Compressive strength: • Normal condition: • After freeze-thaw cycles:	 76 MPa 72 MPa
Flexural strength: • Ne Normal condition: • After freeze-thaw cycles:	 45 MPa 42 MPa
Abrasion resistance:	51 mm^3
Water absorption After 240 min:	0,04 Gr
Shrinkage:	0,7 mm / m
Temperature rezistance:	from -30^{0}C up to +90^{0}C

DEUTSCH COLOR

EPO COLOR

Bi-component, epoxy adhesive and joints filler for walls and floors.

Characteristics
Epo Color is a bi-component tile adhesive, epoxy-based, free of solvents. It is characterized by high resistance to compression, flexion and outstanding adhesive strength. Epo Color is resistant to some acids, alkalis, corrosive concrete agents, cleaning agents, sea water and salt water. Epo Color has a great workability for applications in floors and walls. It can also be easily cleaned with water before it solidifies. It is suitable for joints with 0 - 12 mm dimensions. The product is classified as tiles stucco with RG2 norm, according to EN 13888, and as tiles adhesive with R2 norm, according to EN 12004.

Recommendations for use
Epo Color is applied in those environments where high mechanical strength and resistance to chemical agents is required. The product is utilized for industrial use. It is suitable to attach tiles on the floors and walls, and for filling joints in industrial areas, such as: breweries, dairies, laboratories, slaughterhouses and in other sectors of food or chemical industry, as well as swimming pools, kitchens etc. According to W - 347, EPA 330,5 and EPA 110.2 Epo Color is also suitable for surfaces that are in direct contact with food products.

Joints filling
Mixture is poured gradually into the dried and clean joints, and is spread by using a rubber trowel in a diagonal direction to the direction of the joint; this way, you will achieve a complete filling of the joints and will remove the excess material. The other part of the epoxy joint that remains on the tile surface, is removed by using a wet and slightly rough sponge. After that, clean the tiles with a clean, soft and slightly wet sponge. Using lukewarm water makes cleaning easier. For a better cleaning, add 10% of alcohol (in weight) into the water.

Storage
24 months, if stored in its original packaging, in dry places and protected by frost and direct exposure to sun.

Consumption: 0.2- 1 Kg/m²

Packaging: 5 Kg plastic buckets

Technical data	
Form:	Component APaste Component B Gel
Colour:	30 colors, second baton Colors
Grain size:	0,2 mm
Density:	Component A 1,75 gr/ml Component B 1,05 gr/ml
Density (A+B):	1,54 gr/ml
Mixing ratio:	9A : 1B
Solid content:	Component A 100% Component B 100%
Application temperature:	from +5^{0}C up to +35^{0}C
Joints width:	from 2 mm up to 10 mm
Pot life:	minimum 45 min
Waiting time for washing:	5 min
Time of violation After application:	24 hours
Compressive strength: • Ne Normal condition: • After freeze-thaw cycles:	 70 MPa 67 MPa
Flexural strength: • Ne Normal condition: • After freeze-thaw cycles:	 43 MPa 41 MPa
Abrasion resistance:	111 mm^3
Water absorption After 240 min:	0,08 Gr
Shrinkage:	0,7 mm / m
Temperature rezistance:	from -30^{0}C up to +90^{0}C

FUGA SHINE

Is a liquid, acid-based cleaner

Characteristics
Is a liquid, acid-based cleaner, which is used to clean residues of concrete, various mortars as well as salts from tiles. It serves for cleaning the premises where drinking water and food are stored, since it does not leave residues.

Consumption: 0.2- 1 Kg/m²

Packaging: 1Kg / 5Kg / 10 Kg plastic bottles

DC GLITTER

Metallic colored glitter, polyester and aluminum-based

Recommendations for use
Glitter is added to 3D FUGEN up to 10% in report with the product's weight. Glitter is available in two colors, Silver and Gold. After complete mixing, it gives the product special decorative features. Do not use more than the recommended dose. This product is not recommended for pools and outdoor usage.

APPLICATION PROCEDURE
It is recommended to add up to 10% of the 3D FUGEN weight. This adding is made directly during the mixing of component A and B. After mixing, the product must be applied within the allowed time, before the product solidifies.

Storage
It should be stored in covered and dry environments.

DEUTSCH COLOR

Hydro Insulation

WASSERPROOF 1K

Cement-based, mono-component, waterproof mortar.

Characteristics
Cement-based, mono-component, waterproof mortar which possesses good isolating qualities to moisture and protects concrete from carbonizing. It is suitable to be used for the waterproofing of water deposits, basements, etc. Easy to apply, low application costs and does not have corrosive effects for concretes reinforced with steel.

Recommendations for use
It is used to protect concrete and plaster surfaces and walls from humidity. Suitable to waterproof water deposits, basements, underground buildings, etc. Suitable for the internal waterproof of underground areas, such as: basements, because it is resistant to high pressures thanks to the strong bond it creates with the support.

APPLICATION PROCEDURE

Surface preparation.
The surface must be free of dust, grease and any other type of impurities. If there are crevices or cracks in surface where WASSERPROOF 1K will be applied, first close them and then apply the product. In cases of wires sticking out of the surface where the product will be applied, they should be cut to a depth of 2 to 4 cm and then the created hole should be closed.

Application
WASSERPROOF 1K is added gradually to the required amount of water, by stirring it continuously until the creation of a viscous mass, thick enough to be applied with a brush. The surface where the product will be applied should be completely dry and free of any moisture traces. The product should be applied in two or more layers, depending on the environment where it is going to be applied. Each layer should not be thicker than 1 mm in order to avoid crevices. When the first layer is completely dried, apply the second layer.

Storage
12 months after manufacture date, if preserved in its original packaging, protected by direct exposure to sun and frost.

Consumption: 2.5- 3 Kg/m^2

Packaging: 25 Kg paper bags and 5 Kg plastic buckets

Technical data

Form:	Powder
Colour:	Grey
Bulk density (g/cm^3):	1.4
Solid content (%):	100
Water demand:	25%-27%
Mix Consistency:	Viscous, mildew or brush application
Bulk density of fresh mortar (Kg/m^3):	1,700
Application temperature:	nga +8°C ne +35°C
Pot life:	3 ore
Compressive strength: • Normal condition: • After freeze-thaw cycles:	 76 MPa 72 MPa
Adhesion strength on concrete: • Normal condition: • After freeze-thaw cycles: • Water immersion:	 0.8 MPa 0.5 MPa 0.6 MPa
Vapour permeability EN ISO 7783-1:	class II: SD < 2,5 m
Water shortage, (kg / m^2. H0.5) EN 1062-3:	0,09

DEUTSCH COLOR

WASSER STOP

Fast drying waterproof powder, to stop leaks.

Characteristics
WASSERSTOP is a fast drying waterproof powder, after contact with water.

Recommendations for use
WASSERSTOP is used to stop water leaks, thanks to its fast drying and adhesion qualities.

APPLICATION PROCEDURE

Surface preparation
The support should be clean, and wet. Clean any type of residues, oils, paints.

Application
Give the part where water leaks a conical shape in a 2 – 3 cm depth. WASSERSTOP should be gradually added to water and stirred immediately until it creates a sloppy mixture. The obtained mixture is compressed into the leaking spot and is kept there for approximately 2 minutes, until it gets solid. In cases where the spot that will be filled has a large volume, WASSERSTOP can be mixed with a quantity of sand from the ratio of 1:1 in volume to the ratio of 1: 3 in volume. Thus the time of workability gets increased. Another way to increase the working time is by adding a quantity of ordinary cement. It is recommended to use gloves during the application.

Storage
12 months from production date, if stored in it's original and unopened packaging, in areas protected from the sun and frost.

Consumption: Approximately 1.6 Kg WASSERSTOP is needed for the preparation of a volume of 1 L.

Note
- Water demand should be between +5°C and +35°C.
- In cases where the spot that will be filled has a large volume, WASSERSTOP can be mixed with a quantity of sand from the ratio of 1:1 in volume to the ratio of 1: 3 in volume. Thus the time of workability gets increased. Another way to increase the working time is by adding a quantity of ordinary cement.
- It is recommended to use gloves during the application.

Packaging: 3 Kg plastic buckets

Technical data

Form:	Powder
Colour:	Grey
Water demand:	30%
Bulk density of fresh mortar:	1,05 ± 0,05 Kg / lit
Compressive strength:	40,00 ± 2,00 N / mm^2
Flexural strength:	7,00 ± 0,50 N / mm^2
Pot life:	2 - 3 min to +20^{0}C

WASSERPROOF 2KF

Bi-component, cement-based material, which has elastic properties and is used for waterproofing.

Characteristics
Bi-component, cement-based waterproof material, with inerts of selected granulometry, special additives and synthetic polymers in water-dispersion.
By mixing the two components, you will get a mixture that can be applied even in vertical surfaces, in a thickness up to 1mm per layer. Thanks to its high content of synthetic resins, it guarantees an excellent adhesion in all concrete, brick and ceramic surfaces (pre-prepared). After solidification, it creates a waterproofing and elastic layer, which is resistant to atmospheric agents.

Recommendations for use
- To lay waterproofing membranes prior to tiling, indoor and outdoor.
- Flexible and elastic protection towards water and humidity for concrete and plaster surfaces. The bigger the water pressure, the thicker should be the application of the product.
- Waterproofing and protective coating for concrete surfaces that are subject to chemical aggression, such as: antifreeze salts, sulfates, etc.
- Waterproofing and elastic leveling of cracked plasters.
- Waterproofing and protective coating for wall foundations.
- Suitable for the waterproofing of surfaces which are subject to vibrations and various deformations.
- Waterproofing of pools with matured concrete (over 6 months).

APPLICATION PROCEDURE

Surface preparation
Cement floors in balconies, terraces and pools. the surface which will be waterproofed should have a suitable slope and should be free of holes (holes should be covered with GP REPAIR). If there are wire or iron residues sticking out of the concrete or wall, cut them in a 2–4 cm depth and then cover the opened hole in the above described manner. The surface which will be treated should be completely dry, clean, resistant and stable. For the waterproofing of old basements in old buildings, remove any existing plaster up to a 30 cm height over the moisture level, and then proceed as described previously. In cases of overlapping tiles on existing ceramic tiles, make sure they are firmly attached; then, clean and prepare the surface of the old floor carefully, firstly with a suitable detergent and then with FUGA SHINE. Plasters should be matured (7 days for every cm of thickness) with an appropriate adhesion in the support and should have a good mechanic resistance. The surface which will be treated should be completely dry, clean, resistant and stable. Sprinkle the surface which will be waterproofed with water, before the application of WASSERPROOF 2KF.

Application
Pour component B (liquid) into a clean and suitable container; then, slowly add component A (powder), by mixing them mechanically. Stir carefully with a mechanic, low-speed agitator, until you see the creation of a homogeneous mixture. Manual preparation of the mixture is not recommended. APLICATION of the material is made with brush or roller in several layers, depending on the protection we want to ensure against water. The material is applied 1mm per layer. The following layer is applied after the previous layer has dried completely. After the application of the material, you should protect it from high temperatures, rain, etc. In the connecting angles of floors and walls or in surfaces with a lot of compression and micro-cracking, WASSERPROOF 2KF needs reinforcement, i.e.: covering the surfaces with a mesh tape with fibers of 10 cm, and if the surface is very defective, then cover it completely with glass fiber mesh from 65 - 125 gr per m^2. Mesh is also used for pools and terraces.

Technical data

	Comp. A	Comp. B
Form:	Powder	Liquid
Colour:	Grey	White
Weight in volume (g / cm³):	1.4	-
Density (g / cm³):	-	1.1
Dry residue (%):	100	50
Mix color A + B:	Grey	
Mix Ratio:	2.5 A : 1 B	
Mixing volume weight (kg / m³):	1,700	
Application temperature:	from + 8°C up to + 35°C	
Work time:	1 hour	
Adhesive strength in concrete: • normal condition: • freeze-thaw cycles: • Immersion in water:	 1,5 MPa 1,1 MPa 1,7 MPa	
Elasticity: • After 28 days: • Closure of static cracks at - 20°C: • Closure of dynamic cracks at - 20°C:	 40 0.9 mm 0.5 mm	
Water vapor permeability EN ISO 7783-1:	class I: SD < 5 m	
Water shortage, (kg / m² • h0.5) EN 1062-3:	0,03	

Storage
12 months from the date of production if it is kept in its original packaging and closed, in areas protected from the sun and frost.

Consumption: 2-4 Kg/m^2

Packaging: 25 Kg (comp. A) paper bags and 8 Kg (comp. B) plastic bottles

DEUTSCH COLOR

WASSERPROOF ELASTISCH UV

Waterproof, two component, cement-base material, with elastic properties and protective function for terraces.

Characteristics
Two component waterproofing material consisting of cement, inerts of selected granulometry, special additives and synthetic polymers in aqueous dispersion. By mixing the two components, you get a mixture which can be applied even in vertical surfaces, with a thickness of 1mm per layer. Thanks to its high content of synthetic resins and their good quality, it guarantees an excellent adhesion in all the surfaces of concrete, bricks and ceramics (un-prepared). After becoming hardened, it creates a waterproof and elastic layer which is resistant to atmospheric agents.

Recommendations for use
- Paving of waterproofing membranes for terrace areas.
- Flexible and resistant protection towards water and moisture for concrete surfaces and plasters. The bigger the water pressure, the thicker should be the application of the product.
- Waterproof and protective coating for concrete surfaces that are subject to chemical aggression, such as salts, anti-freezes, sulphates, etc.
- Appropriate for the hydro-insulation of surfaces that are subject to vibrations and different deformations.

APPLICATION PROCEDURE

Surface preparation
For the cement floor in balconies, terraces and pools, the surface to be isolated should have a suitable slope and should not have holes (the holes must be filled with Fibren GP-70). If there are wire or iron residues in the surface which come out of the depth of the concrete or wall, then they should be cut in a 2-4 cm depth and after that, the opened hole should be covered according to the above-described way. The surface to be treated should be completely clean, resistant and stable. For the insulation of basements in old buildings, every existing plaster should be removed up to a height of 30 cm over the level of moisture, and then continue according to the above-described way. In cases of putting tiles over the existing ceramic tiles, make sure they are well adhered; carefully clean the surface of the old floor, with an appropriate detergent, and then prepare with FUGA SHINE. The plasters must be matured (7 days for every cm of depth) through an appropriate adhesiveness in the base and good mechanical resistance. The surface to be treated should be completely clean and stable. Water the surface that is going to be isolated before you apply WASSERPROOF ELASTISCH UV.

Application
Pour the B component (liquid) in a clean and appropriate container; afterwards, slowly add the A component (dust), by stirring it mechanically. Carefully stir with a mechanic mixer, in low speed, until you get a homogeneous mixture. The preparation of the mixture is not recommended to be made manually. The application of the material is done through a brush or a roller, in several layers, depending on the protection we want to ensure towards the water. The material is applied 1 mm for layer. The successive layer is applied after the drainage of the previous layer. After applying the material, make sure it is protected from high temperatures, rain, etc. In the corners that join the floors and walls, or in surfaces of much oppression or micro-cracks, WASSERPROOF ELASTISCH UV needs reinforcement by covering the surfaces with a web band with fibers of 10 cm and if the surface is very defective, then it is fully covered by a mesh of glass fibers from 65-125 gr per m^2. Furthermore, the mesh can even be used for pools or terraces.

Technical data

	Comp. A	Comp. B
Form:	Powder	Liquid
Colour:	White	White
Weight in volume (g / cm³):	1.4	-
Density (g / cm³):	-	1.1
Dry residue (%):	100	50
Mix color A + B:	White	
Mix Ratio:	2.5 A : 1 B	
Mixing volume weight (kg / m³):	1,700	
Application temperature:	from + 8°C up to + 35°C	
Work time:	1 hour	
Adhesive strength in concrete: • normal condition: • freeze-thaw cycles: • Immersion in water:	 1,5 MPa 1,1 MPa 1,7 MPa	
Elasticity: • After 28 days: • Closure of static cracks at - 20°C: • Closure of dynamic cracks at - 20°C:	 40 0.9 mm 0.5 mm	
Water vapor permeability EN ISO 7783-1:	class I: SD < 5 m	
Water shortage, (kg / m² • h0.5) EN 1062-3:	0,03	

Storage
12 months from the date of production if it is preserved in the original packaging and closed, in areas protected from the sun and frost.

Consumption: 2-4 Kg/m^2

Packaging: 25 Kg (comp. A) paper bags and 8 Kg (comp. B) plastic bottles

ISOGREEN ELASTISCH

Is a two-component cement-and-polymer-based coating for elastic waterproofing. In compliance with EN 1504-2.

Characteristics
Two-component coating;
• Resistant to positive and negative hydrostatic pressure;
• Bridges the micro-cracks;
• Elastic;
• Economical;
• Non-toxic;
• Does not contain chlorides;
• Enables direct application of ceramic tiles with building adhesives;
• Resistant to bacteria;
• Easy to apply;
• Excellent adhesion to substrate;
• Possibility for application on a moist substrate.

Recommendations for use
For waterproofing of buildings exposed to positive and negative hydrostatic pressure: pools, settling tanks, water treatment plants, basement wall and floor surfaces, reservoirs, canals, concrete pipes, manholes, balconies, sanitary sewers, kitchens, laundry rooms, embedded concrete elements, etc.

APPLICATION PROCEDURE

Surface preparation
ISOGREEN ELASTISCH should be applied on concrete, cement mortar, stone or gypsum cardboard panels. The substrate should be sound, clean, and free of grease and dust, without segregated spots and cracks. If the substrate has segregated spots and cracks, they should be repaired by applying GP REPAIR (Repairing mortar). The most appropriate method for cleaning the substrate is to apply water under pressure. If the substrate that is being insulated has flowing water, it should be stopped by applying WASSERSTOP. The presence of moisture on the substrate does not affect the application system.

Application
The compound which is to be applied should be prepared by adding the powdery (A) component to the liquid (B) component with continuous mixing (by using a mechanical mixer with 300-500 revolutions per minute). The mixing should continue until reaching complete homogenization of the compound. The compound should be applied by using brushes (120 mm-200 mm wide) or roller brushes in two or three layers. Every next layer should be applied in normal direction on the previously applied dry layer. The time period between the applications of the layers should amount to 6 - 24 hours depending on the temperature. The total thickness of the three layers should amount to approximately 1.0 - 2.0 mm. Treated surfaces should be protected against rain, strong draught and ice for a period of at least 48 hours. When applying the waterproofing, the temperature should be between 10°C and 35°C.

Technical data

	A	B
Form	Powder	Liquid
Color	White	White
Volumic mass	1,50 gr/cm³	1,10 gr/cm³
Combustibility	No Combustibility	
Mix color	White	
Mixing ratio	5	5
Mix consistency	Applicable by brush	
Pot life	≥60 min	
Density of the mixture	1,70 gr/cm³	
Application temperature	from +8°C up to +30°C	
Maximum thickness per layer	1 mm	
Time before tiling	24 hours	
Delay between two coats	4-5 hours	
Shelf life - Shelf life - storage	12 months	

Storage
24 month if stored in original closed packaging, in dry premises, at a temperature between 10°C and 30°C, protected from direct exposure to sunlight.

Consumption: 1.0 Kg / m^2 per layer

Packaging 5Kg (comp. A) and 5Kg (comp. B) plastic buckets

DEUTSCH COLOR

IZODICHT D17

Premium quality waterproof material, with excellent elastic properties providing special water protection.

Characteristics
• Strong adhesion
• White colour
• Long term durability
• Excellent workability
• Very good resistance to water, high temperatures and frost

Recommendations for use
Izodicht D-17 is used as a waterproofing material on terraces, balconies, etc. It can be easily applied by creating a waterproofing membrane with high elasticity and mechanical resistance without creating cracks or shrinkage. Also, it is easily applicable in difficult areas such as angles, various materials that create joints, etc. Izodicht D-17 it is not recommended to be used for the waterproofing of underground basements.

APPLICATION PROCEDURE

Surface preparation
The surfaces should be completely dry, clean and free from dust and elements that hinder the adhesion of the product.

Product preparation
The product is ready for application, it is not recommended to be diluted.

Application
Apply the product in two coating by brush or roller, after the primer, which has been previously applied on the surface, is fully dried. Consumption is approximately 0.8 - 1 lt/ m^2 depending on the surface to be waterproofed. Apply the second coat crosswise to the first coat. In areas characterized by cracks, it is recommended that the waterproofing be reinforced by the application of a fibreglass mesh at a density of 65 - 125 g, which is applied immediately after the application of the first waterproofing foam. Then apply one to two other waterproofing material coatings on the mesh. In cases where the surface to be waterproofed is characterized by frequent cracking, it is recommended that the fibreglass mesh be applied to the entire surface. In this case Izodicht D-17 consumption is 1.5 - 2 Kg/m^2 make sure that the mesh placed on the surface to be waterproofed does not create shrinkage but it is good tensioned on the surface. Clean the spatula and other working tools with water immediately after application.

Storage
24 months if stored in a dry place, away from heat sources, at a temperature between +5°C dhe +30°C. Protect it from frost.

Consumption: 0.8 - 1 lt/m^2

Packaging: 5Kg / 20Kg plastic buckets

Technical data

Basis:	Acrylic copolymer
Density EN ISO 2811- 1:	1,35±0,02 gr/ml
Dry residue EN ISO 3251:	50%
Mixing ratio:	Ready for use
Colour:	White
Tensile adhesion strength in concrete:	≥ 0,8 N/mm^2
Consumption:	1Kg/m^2
Drying time between two coatings:	6 – 8 hours
Full drying time:	24 hours

IZODICHT ENERGIE D-17

Premium quality waterproofing material with thermal insulating properties providing maximum moisture protection.

Characteristics
- Strong adhesion
- White colour
- Flexible even below -20°C
- Long term durability
- Very good workability
- High resistance to water, high temperatures and frost

Recommendations for use
Izodicht Energy D-17 is used as waterproofing material in terraces, balconies, walls, as well as humid places. It can be easily applied by creating a waterproofing membrane with high elasticity and mechanical resistance without creating cracks or shrinkage. Also, it is easily applicable in difficult areas such as angles, various materials that create joints, etc. Izodicht Energy D-17 it is not recommended to be used for the waterproofing of underground basements.

APPLICATION PROCEDURE

Surface preparation
The surfaces should be completely dry, clean and free from dust and elements that hinder the adhesion of the product.

Product preparation
The product is ready for application, it is not recommended to be diluted.

Application
Apply the product in two coating by brush or roller, after the primer, which has been previously applied on the surface, is fully dried. Consumption is approximately 0.8-1lt/m^2 depending on the surface to be waterproofed. Apply the second coat crosswise to the first coat. In areas characterized by cracks, it is recommended that the waterproofing be reinforced by the application of a fibreglass mesh at a density of 65 - 125 g, which is applied immediately after the application of the first waterproofing foam. Then apply one to two other waterproofing material coatings on the mesh. In cases where the surface to be waterproofed is characterized by frequent cracking, it is recommended that the fibreglass mesh be applied to the entire surface. In this case, Izodicht Energy D-17 consumption is 0.8-1lt/m^2 make sure that the mesh placed on the surface to be waterproofed does not create shrinkage but it is good tensioned on the surface. Clean the spatula and other working tools with water immediately after application.

Technical data	
Basis:	Acrylic copolymer
Density EN ISO 2811- 1:	1,35±0,02 gr/ml
Dry residue EN ISO 3251:	50%
Mixing ratio:	Ready for use
Colour:	White
Tensile adhesion strength in concrete:	≥ 0.8 N/mm^2
Consumption:	1Kg/m^2
Drying time between two coatings:	6-8 hours
Full drying time:	24 hours

Storage
24 months if stored in a dry place, away from heat sources, at a temperature between +5°C dhe +30°C. Protect it from frost.

Consumption: 0.8 - 1 lt/m^2

Packaging: 5Kg / 20Kg plastic buckets

DEUTSCH COLOR

IZODICHT PU

Is a painting, waterproofing material for terraces, with high content of elastomeric resins.

Characteristics
- It offers high waterproofing and elasticity.
- It is characterized by excellent adhesive qualities in all cement-based surfaces, in surfaces made of bricks, wood or metal, and every other waterproof material.
- It can be applied even in unleveled surfaces.
- It ensures a high elasticity, thus avoiding the creation of cracks and crevices.
- The white color of the waterproof helps in lowering the temperature during summer; it is hermetic but allows vapor permeability

Recommendations for use
IZODICHT PU is used as waterproof in terraces, balconies, walls and places with humidity. It is easily applicable, thus creating a waterproofing membrane with high elasticity and mechanic resistance, without creating cracks or shrinkage. It is also easily applicable in difficult surfaces such as angles, junctions of different materials that create joints, etc. IZODICHT PU is not recommended to be used for the waterproofing of underground basements.

APPLICATION PROCEDURE

Surface preparation
The surface where the material will be applied should be free of impurities, paints, etc. In order to achieve better waterproofing, it is recommended that the surface which will be waterproofed with IZODICHT PU, be treated beforehand with the liner HYDROPRIMER (consumption 200-300 g/m^2). IZODICHT PU is applied in two layers with brush or roller after the beforehand applied primer is completely dried. Consumption is approximately 0.8 - 1 Kg/m^2, depending on the surface which will be isolated. Apply the second coat crosswise to the first coat. For areas that are characterized by cracking of crevices, it is recommended to reinforce the waterproof by applying a glass fiber mesh of 65 - 125 gr. This mesh is applied immediately after the application of the first layer or waterproof. Following that, over the mesh, apply from one to two other layers of waterproof. In this case, the consumption of IZODICHT PU goes to 1 lt/m^2. Pay attention to the mesh applied on the surface which should not create shrinkage; it should be well stretched onto the surface.

Application
Apply HYDRO PRIMER liner in the damaged surface in a 10 cm ray, throughout the crevices. After the liner is dried, apply the first layer.

Consumption: 0.8 - 1 Kg/m^2

Packaging: 5Kg / 15Kg plastic buckets

Technical data	
Basis:	Acrylic copolymer
Density EN ISO 2811- 1:	1,35±0,02 gr/ml
Dry residue EN ISO 3251:	50%
Mixing ratio:	Ready for use
Colour:	White
Tensile adhesion strength in concrete:	≥ 1.5 N/mm^2
Consumption:	1Kg/m^2
Drying time between two coatings:	6 - 8 hours
Full drying time:	24 hours

ISOLINE

Elastic liquid waterproofing membrane.

Characteristics
ISOLINE is a ready to use product, which is applied with brush or roller. After it gets dried, it creates a very elastic membrane, which is impervious from water and allows its evaporation.

Recommendations for use
ISOLINE is ideal to waterproof surfaces such as balconies, restrooms, etc., before laying ceramic tiles. It is suitable for all types of wall or floor surfaces constructed with concrete, gypsum tiles, etc. This product cannot be applied in surfaces where there is water pressure.

APPLICATION PROCEDURE

Surface preparation
The support should be clean, free of grease, dust, oils, etc. Cracked parts should be repaired before its application. Prior to the application of ISOLINE, the support is treated with HYDRO PRIMER in a quantity of approximately 200 - 300 g/m^2, depending on the absorption capacity of the support.

Application
ISOLINE is applied with brush or roller in two layers, only after the HYDRO PRIMER layer is completely dried. The second layer is applied only after the first layer is completely dried. The waterproofing membrane of ISOLINE should be reinforced in the floors' angles and in the joints' spaces by using a fiberglass mesh type 65 g/m^2. Work tools should be cleaned while ISOLINE is still wet. Tiling the ceramic tiles should be made by using an adhesive with elastic qualities, or by using LATEX as elasticizer for the adhesive.

Storage
18 months from manufacture date, if stored in its original packaging, protected from frost and direct exposure to the sun.

Consumption: 1- 1.2 lt/m^2

Packaging: 5Kg / 15Kg / 20Kg plastic buckets

Technical data

Colour:	Grey
Density:	1.58 Kg / Lit
Viscosity:	50 000 MPa.s
Minimum application temperature:	+ 5^{0}C
Drying time:	6 Hours in 20^{0}C
Water resistance:	7 ATM After DIN 1048
Etanchéité	7 Atm selon la norme DIN 1048
Installation of cement glue	After about 6 hours at 20°C
Total drying time	24 hours

DEUTSCH COLOR

WASSERPHOB

Hydrophobic agent for all mineral surfaces that prevents water penetration.

Characteristics
- Solvent based
- Substrate reinforcement
- Good protection to humidity and salt stains
- It is characterized by good penetrating properties on mineral substrate

Recommendations for use
Wasserphob is used to protect porous layers such as concrete, masonry, plaster, tile boards, natural stones etc., from moisture and salt stains. Also, it is used to reinforce weak layers, as e.g. Plasters, etc. Suitable for indoor and outdoor use.

APPLICATION PROCEDURE

Application
Wasserphob is mixed immediately and applied uniformly to the above layers using a brush, a roller or by spraying, until full saturation of the product layer is complete. On highly porous surfaces, a second layer of this product is required, always after the first layer has first dried. After each application, the tools must be cleaned immediately with water and soap.

Storage
36 months, closed and stored under normal conditions.

Consumption: 0.2- 0.3 Kg/m^2

Packaging: 1lt drums

Technical data

Shape - Color	Liquid - Transparent
Specific weight	0,77±0,04 Kg/lt
Brightness	Matt
Application temperature	from +5^{o}C up to +35^{o}C
The possibility of evaporation of the substrate	at least 80% of the beginner
The water absorption coefficient	W ≤0,5 Kg/m² √ h
Coating with paint	After 6 hours
Time of entry into circulation	After 18 h at +23^{o}C
Bond strength	> 4 N/mm^2

HYDRO PRIMER

Elastomeric primer, for surfaces where waterproofing will be applied.

Characteristics
Elastomeric primer for surfaces where waterproofing will be applied. Aqueous polymer dispersion is applied on porous surfaces thus significantly increasing adhesiveness between elastomeric-based hydro isolators and support. HYDRO PRIMER has penetrating properties in all pores of the surface where waterproof will be applied, thus improving and enhancing the adhesive ability between the waterproof and the surface that will be waterproofed.

Recommendations for use
HYDRO PRIMER is a ready to use PRIMER, which reinforces considerably waterproof adhesion on surfaces made of concrete, mortar, plaster and gypsum panels.

Application
The surfaces to be treated with PRIMER should be completely dry and clean, free of presence of dust. It is recommended to stir it before application. It is easily applicable with a brush or roller on surfaces, before the application of elastomeric waterproof.

Storage
The product can be stored for 18 months in its original packaging and in a dry place. You should avoid exposing the product to low temperatures (freezing) and high temperatures.

Consumption: 200 - 300 g/m^2, depending on the porosity of the surface to be treated.

ATTENTION!
The product is recommended to be applied in the limits of temperatures from +5°C to +35°C

Packaging: 1Kg / 5Kg / 10 Kg plastic bottles

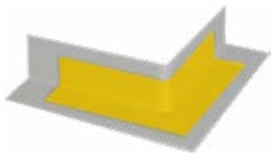
Technical data	
Form:	Liquid
Colour:	Yellow
Density:	1,05 Kg/l
pH:	7
Solid content:	20%
Production viscosity:	30 MPa.s

DC BAND SL 10
Insulating band for the angles of walls and floors

Unit of measurement
10 ml/box

DC BAND EX 90
Waterproof element to cover the angles of walls

Unit of measurement
50 pcs/box



DC BAND IN 90
Waterproof element to cover the angles of walls

Unit of measurement
50 pcs/box

PE DRAINAGE
Reinforcing element used during the process of waterproofing for exits of hydraulic installations, water tubes, etc, from the wall

Unit of measurement
10 pcs/box

DC DRAIN
Reinforcing element used during the process of waterproofing for drains

Unit of measurement
10 pcs/box

PE MEMBRANE
Carpet that reinforces the waterproof of floors and walls

Unit of measurement
50 ml/roll

DEUTSCH COLOR

Decorative, Sportive and industrial floors

SL 30

Self-leveler with high content of cement and modified additives.

Characteristics
SL 30 is a cement-based self-leveler, with modified additives, which is used to lay and level floors. It is classified as CT - C40 - F10 - AR2 according to EN 13813 standard.

Recommendations for use
- It is used to prepare smooth surfaces or layers prior to the application of materials such as: ceramic tiles, parquets, etc.
- It is also used as a final layer for foundations, storehouses, lofts, etc.

APPLICATION PROCEDURE

Support preparation
The base should be clean, free of dust, loose particles, oils, varnishes, etc. First, treat the support with the acrylic primer HYDROPRIMER. SL 30 product is applied after complete drainage of the primer, approximately two hours after the application of HYDROPRIMER. Primer consumption: 200 - 300g/m^2.

Application
SL 30 is gradually added in a quantity of water about 6,0 - 6,5L, by continuously stirring it, until a homogeneous and fluid mixture is formed. The mixture is left to settle for 3 minutes, and then is stirred again. SL 30 is cast in a single layer on the surface which has been treated with primer beforehand, until the desired thickness is achieved. Once the product is leveled, run a toothed roller onto it in order to take out the air within the formed mixture. Water demand should be between +5°C and +35°C.

Storage
12 months from manufacture date if stored in its original and unopened packaging. Protect it from direct exposure to the sun and from frost.

Consumption: Approx. 1.5 Kg/m^2 for mm layer thickness.

Packaging: 25 Kg paper bags

Technical data

Form:	Powder
Colour:	Grey
Water demand:	5.75-6.0 l/25 Kg bag
Bulk density of powder material:	1.35 ± 0.10 Kg/l
Density:	2.05 ± 0.10 Kg/l
Open time:	About 2 hours
Apply another layer:	After 24 hours
Adhesion strength (EN 13892-8):	2.2 N/mm^2
Compressive strength(EN 13892-2):	
• After 4 hours:	12 N/mm^2
• After 24 hours:	20 N/mm^2
• After 7 days:	29 N/mm^2
• After 28 days:	34 N/mm+
Flexural Strength (EN 13892-2):	
• After 4 hours:	1.2 N/mm^2
• After 24 hours:	3.7 N/mm^2
• After 7 days:	5.9 N/mm^2
• After 28 days:	7.4 N/mm^2
Abrasion resistance BCA (EN 13892-4):	
• After 28 days:	≤ 50 µm, AR0.5
Abrasion resistance (EN 13892-3):	
• After 28 days:	A6
Shrinkage (EN 13872):	
• After 28 days:	max 0.45 mm/m

DEUTSCH COLOR

SL 03 EPOXY

Epoxy-based, Two component self-leveler.

Characteristics
SL 03 EPOXY is a cement-based, and epoxy-based resins, leveling product, and free of solvents. It offers the following advantages:
- Excellent mechanical resistance.
- Very good adhesion with the area where it is applied
- High resistance to moisture.
- Excellent leveling qualities.
- No corrosive effect.

It is classified as CT - C50 - F10 - AR0,5 according to EN 13813.

Recommendations for use
SL 03 EPOXY is used for repairs and leveling in surfaces that will be used for: polyurethane coating, PVC flooring, laminate wood flooring, etc. SL 03 EPOXY is applied when the concrete is relatively fresh, in order to create the appropriate surface (at least, with 2mm thickness) for the application of epoxy layers, thus avoiding problems with detachment, etc. it is also suitable as a final layer, in a thickness of 3mm, for smooth surfaces, and to increase the surface's resistance towards mechanical loads.

APPLICATION PROCEDURE

Surface preparation
Surface where the product will be applied should be:
- Stable and dry, or slightly moist
- Clean, free of materials that prevent adhesion, such as dust, loose particles, fats, etc. In very porous or absorbent surfaces, treat them with a water-based epoxy primer as it is or diluted with water. The primer is applied with brush or roller in one layer.

Mixing preparation
Components A and B are packed in predetermined mixing proportions. First, component A should be stirred very well in its container then it should be moved to a clean container of approximately 30 liters volume. After that, the entire quantity of component B should be added to component A. The mixing of the two components should continue for about 30 seconds, with a low- speed mixer (300 rpm). It is important to stir well near the sides and bottom of the bucket, in order to achieve a uniform spreading of the solidifier.

Application
SL 03 EPOXY should be applied at a thickness up to 3 mm using a notched screed. In order to remove air within the self-leveling layer, run a special barbed roller onto the surface. This prevents the formation of bubbles and helps in achieving a uniform thickness.

Cleaning of tools
Tools should be cleaned immediately with water after usage. The hardened material can only be removed mechanically.

Technical data

Chemical basis (A & B)	Epoxy resin (two-component)
Chemical basis (C)	Cement
Color (A + B + C)	Grey
Density A	1,096 Kg/L
Density B	1,025 Kg/L
Density C	2,06 Kg/L
Mixing ratio (A: B: C)	1: 3: 20 by weight
Pot life	from 30 min up to +20°C
Minimum hardening temperature	+8°C
Moisture diffusion coefficient	Sd = 0,75 (EN ISO 7783 - 1 / 2)
Release	After 15 hours at + 23 ° C
Final strength	After 28 days at + 23 ° C
Compressive strength	70 N/mm^2 (EN 13892 - 2)
Flexural strength	20 N/mm^2 (EN 13892 - 2)
Adhesion strength	>4 N/mm²
Maximum thickness	3 mm

Storage
24 months from manufacture date, if stored in its original and unopened packaging. Protect it from direct exposure to the sun and from frost.

Consumption: 200 - 300 g/m^2.

Packaging: 2Kg (comp. A) 6Kg (comp. B) plastic buckets and 25Kg paper bags

SL 3D EPOXY

Epoxy-based, Two component self-leveler.

Characteristics
SL 3D EPOXY is a cement-based, and epoxy-based resins, leveling product, and free of solvents. It offers the following advantages:
• Excellent mechanical resistance.
• Very good adhesion with the area where it is applied
• High resistance to moisture.
• Excellent leveling qualities.
• No corrosive effect.
It is classified as SR - B 2,0 - AR 0,5 according to EN 13813.

Recommendations for use
SL 3D EPOXY is used for repairs and leveling in surfaces that will be used for: polyurethane coating, PVC flooring, laminate wood flooring, etc. SL 3D EPOXY is applied when the concrete is relatively fresh, in order to create the appropriate surface (at least, with 2mm thickness) for the application of epoxy layers, thus avoiding problems with detachment, etc. it is also suitable as a final layer, in a thickness of 3mm, for smooth surfaces, and to increase the surface's resistance towards mechanical loads.

APPLICATION PROCEDURE

Surface preparation
Surface where the product will be applied should be:
• Stable and dry, or slightly moist
• Clean, free of materials that prevent adhesion, such as dust, loose particles, fats, etc. In very porous or absorbent surfaces, treat them with a water-based epoxy primer as it is or diluted with water. The primer is applied with brush or roller in one layer.

Product preparation
Components A and B are packed in predetermined mixing proportions. First, component A should be stirred very well in its container then it should be moved to a clean container of approximately 30 liters volume. After that, the entire quantity of component B should be added to component A. The mixing of the two components should continue for about 30 seconds, with a low- speed mixer (300 rpm). It is important to stir well near the sides and bottom of the bucket, in order to achieve a uniform spreading of the solidifier.

Application
SL 3D EPOXY should be applied at a thickness up to 3 mm using a notched screed. In order to remove air within the self-leveling layer, run a special barbed roller onto the surface. This prevents the formation of bubbles and helps in achieving a uniform thickness.

Cleaning of tools
Tools should be cleaned immediately with water after usage. The hardened material can only be removed mechanically.

Technical data

Form:	Component A Paste Component B Liquid
Colour:	According RAL
Mixing ratio:	2A : 1B
Density comp A:	1.05 ± 0.10 Kg/l
Density comp B:	1.05 ± 0.10 Kg/l
Open time:	About 1 hour
Apply another coat:	After 24 hours
Adhesion strength (EN 13892-8):	4.2 N/mm^2
Compressive strength(EN 13892-2):	
• After 4 hours:	23 N/mm^2
• After 24 hours:	48 N/mm^2
• After 7 days:	81 N/mm^2
• After 28 days:	154 N/mm^2
Flexural Strength (EN 13892-2):	
• After 4 hours:	24 N/mm^2
• After 24 hours:	47 N/mm^2
• After 7 days:	69 N/mm^2
• After 28 days:	94 N/mm^2
Abrasion resistance:	
• After 28 days:	≤ 35 µg
Shrinkage (EN 13872):	
• After 28 days:	max 0.25 mm/m

Storage
24 months from manufacture date, if stored in its original and unopened packaging. Protect it from direct exposure to the sun and from frost.

Consumption: 200 - 300 g/m^2.

Packaging: 5 Kg / 10 Kg (A+B) plastic buckets

SL INDUSTRIAL

Epoxy-based, bi-component self-leveler.

Characteristics
SL INDUSTRIAL is an epoxy-based resin, leveling product, and free of solvents. It offers the following advantages:
• Excellent mechanical resistance.
• Very good adhesion with the area where it is applied
• High resistance to moisture.
• Excellent leveling qualities.
• No corrosive effect.
It is classified as SR - B2,0 - AR0,5 - IR4 according to EN 13813

Recommendations for use
SL INDUSTRIAL is used as a leveling layer in cement-based surfaces, to give them high mechanical and chemical resistance. It is suitable for application in industrial areas, storehouses, parking lots, supermarkets, laboratories, hotels, garages, petrol stations and in areas with heavy traffic. It is also suitable to be in direct contact with food products, according to W - 347, ISO 8467 legislation.

APPLICATION PROCEDURE

Surface preparation
Surface where the product will be applied should be:
• Stable and dry, or slightly moist
• Clean, free of materials that prevent adhesion, such as dust, loose particles, fats, etc.
• Protected against moisture.

Priming
You should apply RESIN SLP primer on the surface. Consumption 200-300 g/m^2. Once the primer is dried, existing damages, such as cracks and holes should be filled using SL INDUSTRIAL (A+B). SL INDUSTRIAL should be applied 24 hours after the application of primer.

Product preparation
Components A and B are packed in predetermined mixing proportions. First, component A should be stirred very well in its container. Then, the entire quantity of component B should be added to component A. The mixing the two components should continue for about 30 seconds, with a low- speed mixer (300 rpm). It is important to stir well near the sides and bottom of the bucket, in order to achieve a uniform spreading of the solidifier. Stirring is done through a low- speed mixer, and it continues until the mixture becomes completely uniform (about 3 minutes).

Applicatione
Depending on the final surface, there are two application manners:
a) Smooth final surface: The epoxy mixture is poured on the floor in a thickness of 2–3 mm and is opened by using a notched screed. Consumption of SL INDUSTRIAL (A+B) is 0.6 Kg/m^2 for mm of thickness. Consumption of quartz sand is 1.2 Kg/mm^2 for mm of thickness. The leveling layer should be run onto with a barbed roller so as to remove the air that is left inside the layer, thus avoiding empty spaces.
b) Rough final surface: First, the epoxy mixture is applied in the manner explained in point a) for smooth surfaces. As long as the layer has not solidified yet, you may pour on the product quart sand with granulometry 0 – 0.4 mm or 0.4 – 0.8mm, as you wish. Consumption of quart sand is approximately 3 Kg/m^2. Once SL INDUSTRIAL has solidified, the unbound portion of sand is removed using a vacuum. In the end, apply a layer of SL INDUSTRIAL with roller.

Technical data

Form:	Component A Paste Component B Leng
Colour:	According RAL
Mixing ratio:	5A : 1B
Density comp A:	1.65 ± 0.10 Kg/l
Density comp B:	1.05 ± 0.10 Kg/l
Open time:	About 1 hour
Apply another coat:	After 24 hours
Adhesion strength (EN 13892-8):	4.5 N/mm^2
Compressive strength(EN 13892-2):	
• After 4 hours:	22 N/mm^2
• After 24 hours:	47 N/mm^2
• After 7 days:	79 N/mm^2
• After 28 days:	135 N/mm^2
Flexural Strength (EN 13892-2):	
• After 4 hours:	14 N/mm^2
• After 24 hours:	39 N/mm^2
• After 7 days:	62 N/mm^2
• After 28 days:	81 N/mm^2
Abrasion resistance:	
• After 28 days:	≤ 40 µg
Shrinkage (EN 13872):	
• After 28 days:	max 0.25 mm/m

Storage: 24 months from manufacture date, if stored in its original and unopened packaging. Protect it from direct exposure to the sun and from frost.

Consumption: 400 – 600 g/m^2

Packaging: 15Kg / 25 Kg (A+B) plastic buckets

BODEN FARBE

Two component epoxy based paint for industrial floor creation with high chemical and mechanical resistance.

Characteristics
- High gloss
- Excellent adhesion
- Resistance to chlorination
- High resistance to corrosion and salty water

Recommendations for use
It can be used in all indoor and outdoor floors where we want to create high chemical and mechanical resistance spaces, for levelling of all indoor and outdoor floors after the construction of concrete layer. It is used to protect concrete surfaces with high mechanical activity and chemical aggression, such as workshops, hospitals, industrial facilities, fuel pumps, pharmaceutical depots, etc.

APPLICATION PROCEDURE

Surface preparation
The surfaces should be completely dry, clean and free from dust and elements that hinder the adhesion of the product.

Product preparation
After application of the product, the surface must be treated with the epoxy primer Boden Grund or Boden Grund Sol.

Application
Application of product Boden Farbe is made by a brush or roller. First, pour the product regularly on the previously treated surface according to the predefined decorative effect. Then, use a roller to help the product to level and cover the entire surface. After the entire surface has been covered, then, reapply the product with a roller in order to obtain a surface as uniform as possible. Clean the working tools with water before the paint dries.

Storage
36 months if stored in a dry place, away from heat sources, at a temperature between +5°C and +30°C. Protect it from frost.

Notes
- In fresh concrete surfaces the product should be applied at least after 30-40 days.
- It is recommended to avoid application of product at temperatures below 5ºC .

Consumption: 1.5 Kg/m^2 /mm thickness

Packaging: 1 Kg / 5 Kg plastic buckets

Technical data	
Resin:	Epoxy resin
Density EN ISO 2811- 1:	Comp. A 1,35±0,02 gr/ml Comp. B 1,05±0,02 gr/ml
Dry residue EN ISO 3251:	100%
Mixing ratio:	4 : 1
Viscosity:	60 ± 5 KU
Tensile adhesion strength in concrete:	≥ 2 N/mm^2
Hardness according to Shore D:	≥ 45
Drying time between two coatings:	30 - 60 minutes
VOC in the ready product (European Directive 2004/42/EC) (g/l):	≤ 100
TVOC ambient emissions, Simulation chamber ISO 16000- 9 (mg/m^3):	≤ 20
Washing resistance ISO 11998:	Class I

DEUTSCH COLOR

OCEAN BLUE

Very high quality two component, water based epoxy paint for swimming pools, delivering a very smooth surface and able to replace perfectly the tiles.

Characteristics
- High gloss
- Very good adhesion
- Available in blue
- Resistance to chlorination
- High resistance to corrosion and salty water

Recommendations for use
It can be used in all indoor and outdoor swimming pools after the construction of concrete layer.

APPLICATION PROCEDURE

Surface preparation
The surfaces should be completely dry, clean and free from dust and elements that hinder the adhesion of the product. After application of product , the surface must be treated with the epoxy liner Boden Grund or Boden Grund Sol and Macht Tiefgrund.

Product preparation
First, mix each component into its packaging container. Then pour the component B inside the container of component A and mix well for 5 minutes.

Application
Application of the product Ocean Blue is done by brush or roller. First, pour the product regularly on the previously treated surface. Then, use a roller to help the product level and cover the entire surface. After the entire surface has been covered, then reapply the product with a roller in order to obtain a surface as uniform as possible. Clean the working tools with solvent before the paint dries.

Storage
36 months if stored in a dry place, away from heat sources, at a temperature between +5°C and +30°C. Protect it from frost.

Notes
- In fresh concrete surfaces the product should be applied at least after 30-40 days.

Consumption: 1.5 Kg/m^2 /mm thickness

Packaging: 3 Kg plastic buckets

Technical data	
Resin:	Epoxy resin
Density EN ISO 2811- 1:	Comp. A 1,35±0,02 gr/ml Comp. B 1,05±0,02 gr/ml
Dry residue EN ISO 3251:	100%
Mixing ratio:	4 : 1
Viscosity:	60 ± 5 KU
Tensile adhesion strength in concrete:	≥ 2 N/mm^2
Hardness according to Shore D:	≥ 50
Drying time between two coatings:	30 - 60 minutes
VOC in the ready product (European Directive 2004/42/EC) (g/l):	≤ 100
TVOC ambient emissions, Simulation chamber ISO 16000- 9 (mg/m^3):	≤ 20
Washing resistance ISO 11998:	Class I

EPO GLAZE

Two component, epoxy based transparent varnish for decorative floors creation with 3D effect.

Characteristics
- High gloss
- Excellent adhesion
- High transparency
- High chemical resistance
- High resistance to corrosion

Recommendations for use
It is used on all indoor and outdoor floors where decorative effect spaces are needed, to level all the indoor and outdoor floors, after placing the 3D effect image, to paint and protect all the surfaces made in micro-cement system or decorative concrete, protecting it against weather agents.

APPLICATION PROCEDURE

Surface preparation
The surfaces should be completely dry, clean and free from dust and elements that hinder the adhesion of the product.

Product preparation
First, mix each component into its packaging container. Then pour the component B inside the container of component A and mix well for 5 minutes.

Application
Application of the product Epo Glaze is made using a notched trowel and a spiked roller. First, pour the product regularly on the previously treated surface according to the predefined decorative effect. Then use a roller to help the product level and cover the entire surface. After the entire surface has been covered by the product, go over it easily with a spiked roller to enable the residual air escape the product, forming a smooth and defect free surface. Clean the working tools with solvent before the paint dries.

Storage
36 months if stored in a dry place, away from heat sources, at a temperature between +5°C and +30°C. Protect it from frost.

Notes
- Apply it when layer temperature is at least 5°C.
- Do not apply if the layer is wet or is likely to get wet.
- Do not apply if weather is clearly deteriorating or is unfavourable for application.
- Do not apply in strong wind conditions.

Packaging: 3 Kg / 6 Kg (A+B) plastic buckets

Technical data	
Resin:	Epoxy resin
Density EN ISO 2811- 1:	Comp. A 1,05±0,02 gr/ml Comp. B 1,05±0,02 gr/ml
Dry residue EN ISO 3251:	100%
Mixing ratio:	2 : 1
Viscosity:	60 ± 5 KU
Tensile adhesion strength in concrete:	≥ 2 N/mm^2
Hardness according to Shore D:	≥ 55
Drying time between two coatings:	30 - 60 minutes
VOC in the ready product (European Directive 2004/42/EC) (g/l):	≤ 100
TVOC ambient emissions, Simulation chamber ISO 16000- 9 (mg/m^3):	≤ 20
Washing resistance ISO 11998:	Class I

DEUTSCH COLOR

PU S880

Polyurethane- based adhesive, for synthetic grass carpets.

Characteristics
- PU S880 is polyurethane- based, synthetic adhesive.
- PU S880 is solvent-free.
- PU S880 reaches a high level of flexibility and adhesiveness.
- PU S880 ensures excellent adhesion in any type of support.
- PU S880 ensures good workability even in low temperatures.

APPLICATION PROCEDURE

Surface preparation
The surface must be pre-prepared in accordance with technical requirements of sports fields' standards.

Application
Mix the adhesive before using it. If you see the formation of a superficial skin, remove it in any case. PU S880 is applied on surfaces through a notched trowel, suitable for parquets. Working time of the product is maximally 30 minutes in normal weather conditions and moisture level. If you see the creation of a skin during the application of PU S880, the adhesive is removed and re-applied.

Storage
12 months if stored in a cool environment, in its original and unopened packaging.

Consumption:
600-800 g/m² by using a 4 mm-notch trowel.
800 - 1000 g/m² by using a 6 mm-notch trowel.

Packaging: 5 Kg / 15 Kg plastic buckets

Technical data	
Form:	Paste
Colour:	Green
Density:	1.30 Kg/L
Open time:	30 minuta
Solid content:	100%

RUBBERGUM

Flexible rubber matting made from granules of recycled rubber, used in combination with products to create multi-purpose playing fields and tennis courts on asphalt or concrete

Characteristics
- The rolls of Rubbergum are made from reclaimed rubber and high quality polyurethane resin binder.
- The use of recycled rubber follows the trend of product sustainability.

APPLICATION PROCEDURE

Surface preparation
Concrete fields to be coated with this product must be clean, free of loose areas and as flat as possible, or with a maximum slope of 1.5%. The substrate must be sufficiently strong for the loads the surface will have to withstand when in service. Repair cracks by filling them and repair any deteriorated areas of the concrete with a cementitious mortar. Before laying and bonding RUBBERGUM, remove all traces of dust from the surface with a vacuum cleaner. If the product is laid on fields previously coated with synthetic resins or on an unknown type of coating, test a small area of the surface for adhesion. After 4-6 hours, lay the rolls of Rubbergum.

Product preparation
Unroll the sheets of Rubbergum over all the surface to be covered, at least one day before bonding them in place.

Application
Bond the Rubbergum to the substrate by applying PU S880 epoxy-polyurethane adhesive over the entire surface. Refer to the product TDS.

Packaging
Rubbergum is supplied in
1 m x 20 m rolls, 4 mm thickness
1 m x 16 m rolls, 5 mm thickness

Technical data	
Density (Kg / m²):	3.0
Dynamic stiffness (MN / m²):	66
Tensile strength (KPa):	470
Recyclable (%):	100
Density of the rubber (Kg / m³):	750
Elongation at breakage (%):	41
Heat resistance:	do + 80°C
Cold resistance:	do - 30°C

DEUTSCH COLOR

PRIMER 880

An acrylic-base resins in water dispersion primer, for the treatment of sports fields.

Characteristics
An acrylic-base resins in water dispersion and filler-based of selected granulometry primer, for indoor and outdoor environments. Thanks to its formula, PRIMER 880 product has high resistance to various weather conditions. The product has excellent adhesive qualities in new surfaces and in pre-coated surfaces.

Recommendations for use
PRIMER 880 is used to treat sports floors before painting them with RESIN SLP, such as: tennis, basketball, volleyball, handball courts, tartar track in football pitches, etc. It is applied on concrete, asphalt surfaces, etc.

APPLICATION PROCEDURE

Surface preparation
The surface where PRIMER 880 will be applied should be cleaned beforehand from dirt, petroleum, oils, varnishes, wax residues, and anti-adhesion materials. Cleaning of oils, varnishes, wax or anti-adhesion materials is done mechanically or manually. Following that, the surface is primed using PRIMER 880 product.

Product preparation
PRIMER 880 can be diluted with 10% - 15% water and is stirred through a mixer which is suitable for homogenization. Then, the product is applied using a brush, roller or spray. The application of the product RESIN SLP is made 12 - 24 hours after the application of the primer's layer.

Storage
12 months if stored in a cool, dry environment, in its original and unopened packaging.

Consumption: 250 - 300 gr/m² / layer

Packaging: 4 Kg plastic buckets

Technical data	
Base:	Acrylic dispersion
Density:	1,10±0,05 Kg/lt
Application temperature:	from +10°C up to +35°C
Delay before coating:	12 -24 hours
Release:	About 24 hours, depending on temperature and humidity
Drying time between two coatings:	30 - 60 min
VOC in the ready product (European Directive 2004/42/EC) (g/l):	≤ 10
TVOC ambient emissions, Simulation chamber ISO 16000- 9 (mg/m³):	≤ 0.2

RESIN SLP

An acrylic-base resins in water dispersion paint, for marking indoor and outdoor sports fields.

Characteristics
An acrylic-base resins in water dispersion and filler-based of selected granulometry paint, for indoor and outdoor environments. Thanks to it's formula the product, has good coverage and longevity. The product has high resistance towards various weather conditions and towards abrasion. The product has excellent adhesive qualities in new surfaces and in pre-coated surfaces.

Recommendations for use
RESIN SLP is used to coat sports floors, such as: tennis, basketball, volleyball, handball courts, tartar track in football pitches, etc.

APPLICATION PROCEDURE

Surface preparation
RESIN SLP is applied on the dried surface where RESIN SLP was applied beforehand, which serves for field's markings.

Product preparation
RESIN SLP can be diluted with 10% - 15% water and is stirred through a mixer which is suitable for homogenization. Then, the product is applied using a brush, roller or spray. The application of the product is made in two layers. The second layer is applied 12 - 24 hours after the application of first layer.

Storage
12 months if stored in a cool, dry environment, in its original and closed packaging.

Consumption: 250 - 300 gr/m² / layer

Packaging: 4 Kg plastic buckets

Technical data	
Base:	Two-component epoxy resin
Color:	Yellow
Viscosity (A):	100 MPa.s at +23°C
Viscosity (B):	2.000 MPa.s at +23°C
Viscosity (A+B):	600 MPa.s at +23°C
Density (A):	1,02 Kg / lt
Density (B):	1,13 Kg / lt
Density (A+B):	1,04 Kg / lt
Mixing ratio (A:B)	3:1
Pot life	About 60 min at + 20°C
Minimum curing temperature	+8°C
Release	After 18 hours at + 23°C
Total hardening	After 7 days
Bond strength	> 4 N/mm²
Cleaning work tools	Clean first with water and then wipe off with paper

DEUTSCH COLOR

3K PRIMER

3-component primer based epoxy and cement. Used for priming surfaces to which will apply epoxy product as SL INDUSTRIAL or BODEN FARBE

Characteristics
3K PRIMER is a product 3-component water based. A+B components are epoxy based component and C is cement based. It is certified as "Class II" for resistance to moisture, which makes it ideal for applications, subjects to negative pressure. The product offers high resistance to consume. It is resistant to water, acids, alkalis, petroleum products etc. 3K PRIMER can be applied on dry surfaces or less moisture.

Recommendations for use
3K Primer is used as a primer to increase the adhesiveness of the surface on which will apply products as SL INDUSTRIAL or BODEN FARBE. This product is suggested in cases that the surface has still high percentage of moisture, as it creates an isolating layer between the substrates and the final layer that will be applied.

APPLICATION PROCEDURE

Surface preparation
The surface on which the primer should be applied need to be:
- Stable
- Without the presence of materials that prevent connection, ex. dust particles, loose, fats etc.
- Do not have sustainable water.

Also it must be prepared according to the situation of the surface. After that, surfaces should be well cleaned from dust with a vacuum cleaners. In cases where large surface cracking must be done their filling before applying 3K Primer.

Application
Component A (resin), component B (Hardener) and component C (cementations powder) are packed in three separate buckets in proportion predetermined weight ratio. Initially all the amount of component B should be added to component A. Mixing of the 2 components should take place for about 2 minutes, using a mixer at low speed (300rpm/min). Then we add the component C and continue the mixture for more than 3 minutes. It is important to achieve a comprehensive mix of well mixed at the sides and bottom of the bucket, in order to achieve a uniform distribution of material. 3K Primer applied as it is or diluted to 10% with water. It can be applied with a brush or roller. Application time should not be more than 40 minutes for normal ambient conditions (+5°C up to +35°C).

Storage
24 months if stored in the unopened original packaging and in a dry place at temperatures between 5°C and 25°C.

Consumption: 250-300 g / m²

Packaging: 2,8 Kg (comp. A) drums, 1.2 Kg (comp. B) plastic buckets 2Kg (comp. C) drums

Technical data	
Form:	Component A,B liquid Component C Powder
Color:	Amber
Shelf life - storage	24 months in the original packaging and in a dry place
Combustibility:	Incombustible
Mixing ratio:	2,8Kg A + 1,2Kg B+ 2Kg C
Density:	1.8 gr/cm³
pH of the mixture:	12
Application temperature:	from +5°C to +35°C
Spreading Time:	>30 min
Application of second hand:	after 4 hours
Deformation:	0
Adhesion to concrete	≥ 2 N / mm²
Adhesion after exposure to heat	≥ 2 N / mm²
Adhesion strength after freeze-thaw cycles	≥ 2 N / mm²

BODEN GRUND

High quality, two component, water based epoxy liner. Suitable for indoor and outdoor use before the application of Boden Farbe and Ocean Blue.

Characteristics
- High penetration
- Excellent adhesion
- Surface reinforcement
- High chemical resistance
- High resistance to corrosion (wear)

Recommendations for use
It can be used in all indoor and outdoor floors where we want to create high chemical and mechanical resistance spaces, for levelling of all indoor and outdoor floors after the construction of concrete layer and before applying the epoxy layer, as well as for concrete surface painting and protection with high mechanical activity and chemical aggression before treated with epoxy paint, such as workshops, hospitals, industrial facilities, fuel pumps, pharmaceutical depots, etc. before the final treatment with epoxy paint.

APPLICATION PROCEDURE

Surface preparation
The surfaces must be fully dried, clean free from elements that hinder the adhesion. Repair all cracks and damaged parts using the line products of Deutschcolor.

Product preparation
First, mix each component into its packaging container. Then pour the component B inside the container of component A and mix well for 5 minutes.

Application
Application of the product Boden Grund is made by a brush or roller. First, pour the product regularly on the previously treated surface according to the predefined decorative effect. Then, use a roller to help the product to level and cover the entire surface. After the entire surface has been covered then reapply the product with a roller in order to obtain a surface as uniform as possible. Clean brushes, rollers and other working tools with water before the paint dries.

Storage
36 months if stored in a dry place, away from heat sources, at a temperature between +5°C and +30°C. Protect it from frost.

Technical data

Resin:	Epoxy resin
Density EN ISO 2811- 1:	Comp. A 1,15±0,02 gr/ml Comp. B 1,05±0,02 gr/ml
Dry residue EN ISO 3251:	100%
Mixing ratio:	3 : 1
Viscosity:	75 ± 5 KU
Drying time between two coatings:	30 - 60 minutes
VOC in the ready product (European Directive 2004/42/CE) (g/l):	≤ 10
TVOC ambient emissions, Simulation chamber ISO 16000- 9 (mg/m^3):	≤ 0.2

Notes
- In fresh concrete surfaces, the product should be applied at least after 30-40 days.
- It is recommended to avoid application of product at temperatures below 5ºC.

Consumption: 1.5 Kg/m^2 /mm thickness

Packaging: 3Kg (comp. A) / 1Kg (comp. B) plastic buckets

DEUTSCH COLOR

BODEN GRUND SOL

Two component, solvent based epoxy liner used for industrial floors.

Characteristics
- High penetration
- Excellent adhesion
- Surface reinforcement
- High chemical resistance
- High resistance to corrosion

Recommendations for use
It can be used in all indoor and outdoor floors where we want to create high chemical and mechanical resistance spaces, for levelling of all indoor and outdoor floors after the construction of concrete layer and before applying the epoxy layer, as well as for concrete surface painting and protection with high mechanical activity and chemical aggression before treated with epoxy paint, such as workshops, hospitals, industrial facilities, fuel pumps, pharmaceutical depots, etc. before the final treatment with epoxy paint.

APPLICATION PROCEDURE

Surface preparation
The surfaces must be fully dried, clean free from elements that hinder the adhesion. Repair all cracks and damaged parts using the line products of Deutschcolor.

Product preparation
First, mix each component into its packaging container. Then pour the component B inside the container of component A and mix well for 5 minutes.

Application
Application of the product Boden Grund Sol is made by a brush or roller. First, pour the product regularly on the previously treated surface according to the predefined decorative effect. Then, use a roller to help the product to level and cover the entire surface. After the entire surface has been covered then reapply the product with a roller in order to obtain a surface as uniform as possible. Clean brushes, rollers and other working tools with solvent before the paint dries.

Storage
36 months if stored in a dry place, away from heat sources, at a temperature between +5°C and +30°C. Protect it from frost.

Technical data

Resin:	Epoxy resin
Density EN ISO 2811- 1:	Comp. A 1,15±0,02 gr/ml Comp. B 1,05±0,02 gr/ml
Dry residue EN ISO 3251:	100%
Mixing ratio:	3 : 1
Viscosity:	75 ± 5 KU
Drying time between two coatings:	30 - 60 minutes
VOC in the ready product (European Directive 2004/42/CE) (g/l):	≤ 10
TVOC ambient emissions, Simulation chamber ISO 16000- 9 (mg/m^3):	≤ 0.2

Notes
- In fresh concrete surfaces, the product should be applied at least after 30-40 days.
- It is recommended to avoid application of product at temperatures below 5ºC.

Consumption: 1.5 Kg/m^2 /mm thickness

Packaging: 3Kg (comp. A) / 1Kg (comp. B) drums

DEUTSCH COLOR

Mortars

MÖRTEL B3

Material that serves to bond bricks in wall, for indoor and outdoor environments

Characteristics
Powder, adhesive material, with cement, lime, stone sand with selected granulometry, synthetic resins and special additives.
• It is characterized by an excellent workability.
• Easily pliable and applicable
• Good adhesion on the support

Recommendations for use
It is used for bonding bricks and blocks, in all types of supports. The product is applied mechanically and manually. During the application of the product, the temperature should be from +5ºC up to +35ºC.

APPLICATION PROCEDURE

Surface preparation
The support where the material will be applied must be dry, clean, uniform, absorbent, and stable. There should be no external residues, such as: oils, varnishes, etc. Do not apply the product on a frozen support (frozen bricks). When the supports (tiles) are dried and characterized by a high water-suction quality, it is suggested to spray the support with water before applying the product.

Mixture preparation
Mix 25 Kg of the product by pouring it into water manually or mechanically. Stir it until you have a mixture with the required workability properties .

Application
The product is applied manually with a trowel or mechanically with a machine. When the product is applied with a machine you should pay attention to the consistency of the mixture and do not mix it with other materials. It is suggested to check the consistency of mortar processing for every fill of crane bucket. In cases of long pauses, the mixing machine should be left empty and cleaned. Fresh mortar should be processed within two hours. Protect the bricks and mortar (especially, during work interruption) from rain.

Storage
12 months if the product is stored in its original and unopened packaging, in environments protected by moisture and frost.

Consumption: Approximately 25 Kg/m^2 for cm thickness.

Packaging: 25 Kg paper bags

Technical data	
Forme	Powder
Colour	Grey
Shelf life - storage	12 months in the original packaging and in a dry place
Combustibility	incombustibility
Mixing ratio	5.5 - 6 liter of stock less than 25 kg
The density of the mixture	1,9 gr/cm^3
The consistency of the mixture	Thixotropic
Application temperature	+ 5°C à + 35°C
Mixing time	3 to 4 hours
Working time:	30 min
The maximum layer thickness	3 cm
Start of consolidation	400 min

DEUTSCH COLOR

MÖRTEL Y-TONG

Cement- based adhesive for AAC blocks.

Characteristics
• Cement-based powder adhesive, with sand of selected granulometry, synthetic resins and special additives.
• Good adhesion, effortless opening and excellent protection against water.
• For indoor and outdoor environments.

Recommendations for use
It is used for bonding in walls of bricks and blocks, in all types of supports. The product is applied by machinery or hand. During the application of the product, the temperature of support and environment should be from +5ºC up to +35ºC.

APPLICATION PROCEDURE

Surface preparation
The support where the material will be applied must be dry, clean, uniform, absorbent, and stable. There should be no external residues, such as: oils, varnishes, petroleum, etc. On the support where the material will be applied should be no such phenomena as fluorescence.

Product preparation
Mix 25 Kg powder filling mortar with 6 – 6.5 liters of water through an electric agitator or manually, until you get a mixture appropriate for the required application. You can also work with a pump.

Application
The product is applied manually, with a trowel or mechanically with a pump. When the product is applied with a pump you should pay attention to the consistency of processing. Do not add other materials, except for Latex. In case of longer pauses, the agitator should be left empty and be cleaned. Fresh mortar should be processed within 2 hours. Protect the bricks and mortar (especially, during work interruption) from rain. In cases of high temperatures, it is better to slightly water the mortar before it gets dried, so as not to lose its water.

Reinforcement with Latex
To improve the adhesiveness, resistance to water, plasticity, flexibility, mechanical strength, etc., the mortar can be reinforced with Latex additive. The mixing ratio is 1: 5 in water.

Storage
12 months after manufacture date if the product is stored in its original and unopened packaging, in environments protected by moisture and frost.

Consumption: 25 Kg/m^2 /mm thickness

Packaging: 25 Kg paper bags

Technical data	
Form	Powder
Colour	White
Density	1650 gr/L
Pot life	4 hours
Application temperature:	entre +5°C et +35°C
Open time EN 1346	≥ 20 minutes
Adjustability period	≥ 30 minutes
Adhesion strength - After immersion in water - Toplinsko dejstvo + 70ºC - After action of heat - Under normal conditions	 ≥ 1,10 N/mm² ≥ 0,52 N/mm² ≥ 0,65 N/mm² ≥ 0,54 N/mm²

MÖRTEL M5

Basic filling material for brick or block walls for indoor and outdoor environments

Characteristics
Powder material, with cement, lime, stone sand of selected granulometry, synthetic resins and special additives.
• It is characterized by excellent workability.
• High mechanical resistance
• Free of vertical slip
• Adhesion abilities in walls and ceilings

Recommendations for use
It is used as a basic mortar for all types of supports, such as: brick or block walls, etc. The product is applied through a piece of machinery or hand. During the application of the product, the support, and environment temperature should be from +5°C up to +35°C.

APPLICATION PROCEDURE

Surface preparation
The support where the material will be applied must be dry, clean, uniform, absorbent, and stable. There should be no external residues, such as: oils, varnishes, petroleum, etc. On the support in which the material will be applied, there should be no external phenomenons such as fluorescence.

Product preparation
Mix 25 Kg powder filling mortar with 6 – 6.5 liters of water through an electric agitator or manually, until you get a mixture appropriate for the required application. You can also work with a pump.

Application
The product is applied manually, with a trowel or mechanically with a pump. When the product is applied with a pump you should pay attention to the consistency of processing. Do not add other materials, except for Latex. In the case of long pauses, the agitator should be left empty and be cleaned. Fresh mortar should be processed within 2 hours. Protect the bricks and mortar (especially, during work interruption) from rain. In cases of high temperatures, it is better to slightly water the mortar before it gets dried, so as not to lose its water.

Reinforcement with Latex
To improve the adhesiveness, resistance to water, plasticity, flexibility, mechanical strength, etc., the mortar can be reinforced with Latex additive. The mixing ratio is 1: 5 in water.

Consumption: 15 Kg/m^2 /mm thickness

Packaging: 25 Kg paper bags

Technical data	
Form:	Powdre
Colour	Grey
Pot life	4 hours at 20 ° C
Water demand	4,5 – 5,5 L/25Kg
Density of dry mortar	1,55 ± 0,10 kg/l
Density of fresh mortar	1,85 ± 0,10 kg/l
Compressive strength	> 5,2 N/mm²
Flexural strength	>2,5 N/mm²
Adhesion strength	0,5 N/mm²
Capillary absorption	0,30 kg*m-2 * h-0, 5
Reaction to fire	Euroclass A1
Application temperature	from +5°C to +35°C

DEUTSCH COLOR

MÖRTEL M10

Cement-based mortar with special additives for stuccoing and finishes, giving an antique effect.

Characteristics
MORTEL M10 is a pre-prepared, cement-based product, reinforced with modified polymers, without corrosive ingredients, suitable for internal and external use, offering:
• Good resistance to consumption.
• Good bond with the surface where it will be applied.
• High resistance to moisture.
• Good workability.
• In conformity with EN 998 – 1 standard.

Recommendations for use
MORTEL M10 is used to repair antique stuccos, to repair masonries, etc. MORTEL M10 is applied up to 2cmm of thickness for large scale applications and up to 5 cm for localized repairs.

APPLICATION PROCEDURE

Surface preparation
The surface where the product will be applied should be clean, free of dust, oil and other impurities. Water the surface before applying MORTEL M10.

Application
MORTEL M10 is added to water by stirring it continuously until you acquire a homogeneous mixture. The material is applied by hand if it is being used as a mortar and by pump or trowel if it is being used as a finishing coat.

Storage
12 months after manufacture date if the product is stored in its original and unopened packaging, in environments protected by moisture and frost.

Consumption: Approximately 15 Kg/m^2 for cm thickness.

Packaging: 25 Kg paper bags

Technical data	
Form:	Powder
Colour	Grey
Pot life	4 hours at 20°C
Water demand	4,5 – 5,5 L/25Kg
Density of dry mortar	1,55 ± 0,10 kg/l
Density of fresh mortar	1,85 ± 0,10 kg/l
Compressive strength	> 5,2 N/mm²
Flexural strength	>2,5 N/mm²
Adhesion strength	0,5 N/mm²
Capillary absorption	0,30 kg*m-2 * h-0, 5
Reaction to fire	Euroclass A1
Application temperature	de +5°C à +35°C
The amount of water to prepare	25- 27%
Volumetric weight of mortar	1830 Kg/m³

MÖRTEL M15

Basic filling material for brick or block walls for indoor and outdoor environments

Characteristics
Powder material, with cement, lime, stone sand of selected granulometry, synthetic resins and special additives.
• It is characterized by excellent workability.
• High mechanical resistance
• Free of vertical slip
• Adhesion abilities in walls and ceilings

APPLICATION PROCEDURE

Recommendations for use
It is used as a basic mortar for all types of supports, such as: brick or block walls, etc. The product is applied through a piece of machinery or hand. During the application of the product, the support and environment temperature should be from +5°C up to +35°C.

Surface preparation
The support where the material will be applied must be dry, clean, uniform, absorbent, and stable. There should be no external residues, such as: oils, varnishes, petroleum, etc. On the support in which the material will be applied, there should be no external phenomenons such as fluorescence.

Product preparation
Mix 25 Kg of powder MORTEL M15 with 5.5-6 liters of water through an electric agitator or manually until acquiring an appropriate mixture for the required application. You can also work with a pump.

Application
The product is applied manually, with a trowel or mechanically with a pump. When the product is applied with a pump you should pay attention to the consistency of processing. Do not add other materials, except for Latex. In the case of long pauses, the agitator should be left empty and be cleaned. Fresh mortar should be processed within 2 hours. Protect the bricks and mortar (especially, during work interruption) from rain. In cases of high temperatures, it is better to slightly water the mortar before it gets dried, so as not to lose its water.

Reinforcement with Latex
To improve the adhesiveness, resistance to water, plasticity, flexibility, mechanical strength, etc., the mortar can be reinforced with Latex additive. The mixing ratio is 1: 5 in water (see technical sheet Latex).

Technical data	
Form:	Powdre
Color	Grey
Shelf life - storage	12 months in the original packaging and in a dry place
Combustibility	incombustibility
Measurement report	5.5 to 6 liters of water for 25 Kg of mortar
Melange density	1.5 gr/cm³
Melange consistency	Thixotropic
Application temperature	from + 5°C to + 35°C
Pot life	3 – 4 hours
Time of maniability	2 hours
Maximum thickness:	3 cm
Setting time:	400 min

Storage
12 months after manufacture date if the product is stored in its original and unopened packaging, in environments protected by moisture and frost.

Consumption: Approximately 15 Kg/m² for cm thickness.

Packaging: 25 Kg paper bags

DEUTSCH COLOR

GP REPAIR

Cement-based, repairing mortar, with synthetic resins and special additives.

Characteristics
• High mechanical resistance
• Does not contract
• It offers excellent workability, adhesion, resistance to frost, strikes, and humidity.
• It does not crack and does not slip in large thicknesses.

Recommendations for use
GP REPAIR,repairs all types of irregular constructions in a thickness of 6 cm, with one layer, without molds. It is suitable for all types of repair works in concrete, for adjusting broken corners in ladders, balconies, columns, holes, gutter creation.

APPLICATION PROCEDURE

Surface preparation
The substrate must be free from dust and rotten materials, and it should be thoroughly wetted or primed with the micromolar stabilizer BETON CONTACT, before application.

Application
Pour the cement powder into clean water, (ratio 25kg powder/ 6.5lt water) and stir with a low speed mixer until the mixture is homogeneous. The mixture remains workable for 3 hours and is applied through a trowel if used for repairs, and through a pouring machinery if the surfaces need a covering material with high mechanical resistances.

Storage
12 months after manufacture date if the product is stored in its original and unopened packaging, in environments protected by moisture and frost.

Consumption: About 18 Kg/m² / cm thickness layer

Packaging: 25 Kg paper bags

Technical data	
Form - Color	Cement powder - Gray
Toxicity - Flammability (per EN 88/379)	NO
Specific weight of dry powder	1,47 ± 0,05 kg/lt
Specific weight of the mixture	2,00 ± 0,05 kg/lt
Maximum grain diameter	1,5 mm
Water demand	5.5 liters for 25 kg of powder
Application temperature	From + 5 ° C to + 35 ° C
Thermal resistance	From -30 ° C to + 80 ° C
Pot life	3 hours
Maximum application thickness	6 cm

GP REPAIR FAST

Powder specifically for cement-based repairs that hardens quickly, with high resistances.

Characteristics
- Specifically for cement-based repairs.
- It hardens quickly and has high resistance.
- It does not contain chlorides or corrosive contents.
- Workable for 7 minutes, white the solidification procedure starts after 15 minutes.
- It has high resistance in frost, humidity and abrasion from chemical substances such as nitric salts, sulfur and chlorides.
- It represents high adhesiveness with the substrate, excellent workability, zero shrinkage and does not crack.

Recommendations for use
GP REPAIR FAST is recommended for safe and fast stabilizations in meshes for plasters in outdoor and indoor surfaces, for power distribution boxes, thus substituting plaster cast with a resistance that is 40 times higher in compression and does not have the risk of being destroyed due to rain and humidity. It is necessary for hydraulic applications in walls. It is suitable for machine anchoring, metallic railing and pillar fixation in concrete walls. It is effective for sealing holes in concrete walls, floors or ceilings, and also for putting angle bead profiles (angle protectors).

APPLICATION PROCEDURE

Surface preparation
The substrate must be free from dust and rotten materials, and it should be thoroughly wetted in order to have a high adhesion.

Application
Pour GP REPAIR FAST into clean water, in ratio 3 kg powder / 0,7 - 0,8 l of water, depending on the application, and mix well until a homogeneous mixture is created. Every layer is applied in a thickness up to 3 cm.

Storage
24 months if stored in a well-closed packaging, in dry places and at temperatures higher than +10°C.

Consumption: About 18 Kg/m²/cm thickness layer

Packaging: 25 Kg paper bags

Technical data

Form - Color	Cement powder - Gray
Toxicity - Flammability (per EN 88/379)	No
Specific weight of dry powder	1,42 ± 0,05 kg/lt
Specific weight of the mixture	2,00 ± 0,05 kg/lt
Maximum grain diameter	0,7 mm
Water demand	0.7 liter for 3 kg of powder
Application temperature	From + 5 ° C to + 30 ° C
Thermal resistance	From -30 ° C to + 200 ° C
Pot life	7 minutes
Shrinkage according to ASTM C596	0
Permanent moisture resistance	Excellent
Flexural strength after 28 days according to EN 196-1	7,50 ± 1,00 N/mm²
Compressive strength according to EN 196-1 after: - 24 hours - 7 days - 28 days	 8,90 ± 2,00 N/mm² 23,50 ± 1,00 N/mm² 35,00 ± 1,00 N/mm²

DEUTSCH COLOR

BETOGROUT A11

Cement-based, quick drying mortar, for repairs of concrete structures and anchoring.

Characteristics
- High mechanical resistance
- Does not shrink
- For indoor and outdoor use.
- It offers excellent workability, adhesion, resistance to freezing, strikes and humidity.
- Thanks to its hydraulic connection, special polymers, selected inerts and synthetic fibers, it does not crack.

Recommendations for use
Betogrout A11, is suitable for quick repairs of concrete elements, for fixations, anchoring, holes sealing, gutter creation, and in general in those places where high resistance and quick work is required.

APPLICATION PROCEDURE

Surface preparation
The substrate should be clean and free of dust or rotten materials; it should be wetted well or be primed with the micromolecular stabilizer BETON CONTACT before its application.

Application
Pour the cement powder into clean water, in a ratio of 25 Kg powder in 5,5 l water and stir them with a low-rotation drill or with a concrete mixer, until you acquire a homogeneous mixture, which is suitable for any type of use. The mixture is workable for 10 minutes; it is applied with a trowel in cases of repairs, or with a pouring machine if the surfaces need a covering material with high mechanical resistance.

Consumption: About 18 Kg/m²/cm thickness layer

Packaging: 25 Kg paper bags

Technical data

Form - Color	Cement powder - Gray
Toxicity - Flammability (per EN 88/379)	No
Specific weight of dry powder	1,47 ± 0,05 kg/lt
Specific weight of the mixture	2,00 ± 0,05 kg/lt
Maximum grain diameter	1,5 mm
Water demand	5.5 liters for 25 kg of powder
Application temperature	from +5°C up to +35°C
Thermal resistance	from -30°C up to +80°C
Pot life	10 minutes
Flexural strength after 28 days according to EN 196-1	8,00 ± 1,00 N/mm²
Compressive strength according to EN 196-1 after: - 24 hours - 7 days - 28 days	 22,00 ± 3,00 N/mm² 30,00 ± 2,00 N/mm² 50,00 ± 1,00 N/mm²

BETOGROUT B22

Cement-based, quick drying mortar for anchoring metallic structures.

Characteristics
- High mechanical resistance.
- Does not shrink
- For indoor and outdoor use.
- It offers excellent workability, adhesion, resistance to freezing, strikes and humidity.
- Thanks to its hydraulic connections, special polymers, selected inerts and synthetic fibers, it does not crack.

Recommendations for use
The substrate should be clean and free of dust or rotten materials; it should be wetted well or be primed with the micromolecular stabilizer BETON CONTACT before its application.

APPLICATION PROCEDURE

Surface preparation
The substrate should be clean and free of dust or rotten materials; it should be wetted well or be primed with the micromolecular stabilizer BETON CONTACT before its application.

Application
Pour the cement powder into clean water, in a ratio of 25 Kg powder in 5,5 l water and stir them with a low-rotation drill or with a concrete mixer, until you acquire a homogeneous mixture, which is suitable for any type of use. The mixture is workable for 10 minutes; it is applied with a trowel in cases of repairs, or with a pouring machine if the surfaces need a covering material with high mechanical resistance.

Consumption: About 18 Kg/m²/cm thickness layer

Packaging: 25 Kg paper bags

Technical data

Form - Color	Cement powder - Gray
Toxicity - Flammability (per EN 88/379)	No
Specific weight of dry powder	1,47 ± 0,05 kg/lt
Specific weight of the mixture	2,00 ± 0,05 kg/lt
Maximum grain diameter	1,5 mm
Water demand	5,5 liter for 25 kg of powder
Application temperature	From + 5°C to + 35°C
Thermal resistance	From -30°C to + 80°C
Pot life	15 minutes
Flexural strength after 28 days according to EN 196-1	18,00 ± 1,00 N/mm²
Compressive strength according to EN 196-1 after: - 24 hours - 7 days - 28 days	 42,00 ± 3,00 N/mm² 70,00 ± 2,00 N/mm² 90,00 ± 1,00 N/mm²

DEUTSCH COLOR

BETOGROUT C57

Cement-based, quick drying mortar for anchoring metallic structures.

Characteristics
- High mechanical resistance
- Does not shrink
- For indoor and outdoor use.
- It offers excellent workability, adhesion, resistance to freezing, strikes and humidity.
- Thanks to its hydraulic connections, special polymers, selected inerts and synthetic fibers, it does not crack.

Recommendations for use
BETOGROUT C57 is suitable for fixations, anchoring, metallic structures, holes sealing, and generally in those places where high resistance and quick work is required.

APPLICATION PROCEDURE

Surface preparation
The substrate should be clean and free of dust or rotten materials; it should be wetted well or be primed with the micromolecular stabilizer BETON CONTACT before its application.

Application
Pour the cement powder into clean water, in a ratio of 25 Kg powder in 5,5 l water and stir them with a low-rotation drill or with a concrete mixer, until you acquire a homogeneous mixture, which is suitable for any type of use. The mixture is workable for 10 minutes; it is applied with a trowel in cases of repairs, or with a pouring machine if the surfaces need a covering material with high mechanical resistance.

Storage
12 months if stored in a well-closed packaging, in dry places and at temperatures higher than +10°C.

Consumption: About 18 Kg/m²/cm thickness layer

Packaging: 25 Kg paper bags

Technical data

Form - Color	Cement powder - Gray
Toxicity - Flammability (per EN 88/379)	No
Specific weight of dry powder	1,47 ± 0,05 kg/lt
Specific weight of the mixture	2,00 ± 0,05 kg/lt
Maximum grain diameter	1,5 mm
Water demand	5.5 liters for 25 kg of powder
Application temperature	from +5°C up to +35°C
Thermal resistance	from -30°C up to +80°C
Pot life	15 minutes
Flexural strength after 28 days according to EN 196-1	10,00 ± 1,00 N/mm²
Compressive strength according to EN 196-1 after: - 24 hours - 7 days - 28 days	 32,00 ± 3,00 N/mm² 50,00 ± 2,00 N/mm² 70,00 ± 1,00 N/mm²

EPODUR M1

Bi-component, epoxy resin for injection, solvent free, thin liquid, zero shrinkage

Characteristics
- Bi-component, epoxy resin for injection
- Solvent free
- Thin liquid
- Zero shrinkage.
- Its fluidity allows regulation of small cracks.
- It presents high adhesion in reinforced concrete and steel.
- It has high resistance to compression, flexion and acids.
- Not affected by alkalis, frosts and humidity.

Technical data	
Chemical basis	Two-component epoxy resin
Color (A + B)	(A) Transparent, (B) yellow
Viscosity (A + B)	970 cP (Brookfield, 20 rpm, spindle No 3)
Specific gravity (A + B)	1,1 Kg/Lt
Pot life	60 min at 20 ° C (This time decreases with increasing temperature)
Application temperature	From + 5 ° C to + 40 ° C
Thermal resistance	From -20 ° C to + 100 ° C
Final strength	7 days at 23 ° C
Resistance according to EN 196-1: - compression - bending	 37 N/mm² 72 N/mm²
Resistance according to EN 1348: - tearing off	 4 N/mm²

Recommendations for use
EPODUR M1 is used to implement resin injections in concrete cracks which are 0,1 - 1 mm wide. It is recommended for the repair of cracks on bridges, tunnels, dams, columns, beams that crack due to overload, earthquakes, etc. It guarantees a complete rehabilitation, by bringing back the initial compactness to the building element. It is suitable for bonding new concrete with the existing one. It offers the only solution to the later planting of a metal framework in horizontal or vertical surfaces of reinforced concrete. It bonds the same or different materials, except for polyethylene and Teflon, offering a very powerful bonding dynamic.

APPLICATION PROCEDURE

Surface preparation
The substrate should be free from rotten materials, dust, oils, and water.

Product preparation
Stir the two components A and B in the ratio of 3: 1 with a narrow spatula until you get a homogeneous mixture (3-4 minutes).

Application
a) Resin injection: Remove from both sides of the crack (in case of plaster) the dust with compressed air, thus cleaning the concrete. Seal with the epoxy putty Epo Anchor throughout the entire length of the crack, by putting injection nozzles every 25 cm. Vertical cracks should be filled by using a multifunctional pistol starting from the lowest point of height and continuing up, sealing the nozzles with caps after pouring EPODUR M1.
b) Framework planting: open holes with a diameter larger than that of the metal framework and in the maximal depth possible. In horizontal surfaces, holes need to face upward. After removing the dust, fill with EPODUR M1, in order for the resin to easily flow after setting the framework.

Storage
24 months if stored in a well-closed packaging, in dry places and at temperatures higher than +10°C.

Consumption
Sealing cracks: 1.1 Kg/l empty volume.

Packaging: 1 Kg / 4 Kg drums

DEUTSCH COLOR

EPODUR M3

Bi-component, epoxy resin for injection, solvent free, thin liquid, zero shrinkage

Characteristics
- Bi-component, epoxy resin for injection
- Solvent free
- Thin liquid
- Zero shrinkage.
- Its fluidity allows regulation of small cracks.
- It presents high adhesion in reinforced concrete and steel.
- It has high resistance to compression, flexion and acids.
- Not affected by alkalis, frosts and humidity.

Technical data	
Chemical basis	Two-component epoxy resin
Color (A + B)	(A) Transparent, (B) yellow
Viscosity (A + B)	970 cP (Brookfield, 20 rpm, spindle No 3)
Specific gravity (A + B)	1,1 Kg/Lt
Pot life	60 min at 20 ° C (This time decreases with increasing temperature)
Application temperature	From + 5°C to + 40°C
Thermal resistance	From -20°C to + 100°C
Final strength	7 days at 23 ° C
Resistance according to EN 196-1: - compression - bending	 42 N/mm² 75 N/mm²
Resistance according to EN 1348: - tearing off	 5 N/mm²

Recommendations for use
EPODUR M3 is used to implement resin injections in concrete cracks which are 1 - 3 mm wide. It is recommended for the repair of cracks on bridges, tunnels, dams, columns, beams that crack due to overload, earthquakes, etc. It guarantees a complete rehabilitation, by bringing back the initial compactness to the building element. It is suitable for bonding new concrete with the existing one. It offers the only solution for the later planting of a metal framework in horizontal or vertical surfaces of reinforced concrete. It bonds the same or different materials, except for polyethylene and Teflon, offering a very powerful bonding dynamic.

APPLICATION PROCEDURE

Surface preparation
The substrate should be free from rotten materials, dust, oils, and water.

Product preparation
Stir the two components A and B in the ratio of 3: 1 with a narrow spatula until you get a homogeneous mixture (3-4 minutes).

Application
a) Resin injection: Remove from both sides of the crack (in case of plaster) the dust with compressed air, thus cleaning the concrete. Seal with the epoxy putty Epo Anchor throughout the entire length of the crack, by putting injection nozzles every 25 cm. Vertical cracks should be filled by using a multifunctional pistol starting from the lowest point of height and continuing up, sealing the nozzles with caps after pouring EPODUR M3.
b) Framework planting: open holes with a diameter larger than that of metal framework and in the maximal depth possible. In horizontal surfaces, holes should face upward. After removing the dust, fill with EPODUR M3, in order for the resin to easily flow after setting the framework.

Storage
24 months if stored in a well-closed packaging, in dry places and at temperatures higher than +10°C.

Consumption
For sealing cracks: 1.1 Kg / l empty volume.

Packaging: 1 Kg / 4 Kg drums

EPODUR M10

Bi-component, epoxy resin for injection, solvent free, thin liquid, zero shrinkage

Characteristics
- Bi-component, epoxy resin for injection
- Solvent free
- Thin liquid
- Zero shrinkage.
- Its fluidity allows regulation of small cracks.
- It presents high adhesion in reinforced concrete and steel.
- It has high resistance to compression, flexion and acids.
- Not affected by alkalis, frosts and humidity.

Recommendations for use
EPODUR M10 is used to implement resin injections in concrete cracks which are over 3 mm wide. It is recommended for the repair of cracks on bridges, tunnels, dams, columns, beams that crack due to overload, earthquakes, etc. It guarantees a complete rehabilitation, by bringing back the initial compactness to the building element. It is suitable for bonding new concrete with the existing one. It offers the only solution for the later planting of a metal framework in horizontal or vertical surfaces of reinforced concrete. It bonds the same or different materials, except for polyethylene and Teflon, offering a very powerful bonding dynamic.

APPLICATION PROCEDURE

Surface preparation
The substrate should be free from rotten materials, dust, oils, and water.

Product preparation
Stir the two components A and B in the ratio of 3: 1 with a narrow spatula until you get a homogeneous mixture (3-4 minutes).

Application
a) Resin injection: Remove from both sides of the crack (in case of plaster) the dust with compressed air, thus cleaning the concrete. Seal with the epoxy putty Epo Anchor throughout the entire length of the crack, by putting injection nozzles every 25 cm. Vertical cracks should be filled by using a multifunctional pistol starting from the lowest point of height and continuing up, sealing the nozzles with caps after pouring EPODUR M10.
b) Framework planting: open holes with a diameter larger than that of metal framework and in the maximal depth possible. In horizontal surfaces, holes should face upward. After removing the dust, fill with EPODUR M10, in order for the resin to easily flow after setting the framework.

Technical data

Chemical basis	Two-component epoxy resin
Color (A + B)	(A) Transparent, (B) yellow
Viscosity (A + B)	970 cP (Brookfield, 20 rpm, spindle No 3)
Specific gravity (A + B)	1,1 Kg/Lt
Pot life	60 min at 20 ° C (This time decreases with increasing temperature)
Application temperature	From + 5 ° C to + 40 ° C
Thermal resistance	From -20 ° C to + 100 ° C
Final strength	7 days at 23 ° C
Resistance according to EN 196-1: - compression - bending	 45 N/mm² 80 N/mm²
Resistance according to EN 1348: - tearing off	 5 N/mm²

Storage
24 months if stored in a well-closed packaging, in dry places and at temperatures higher than +10°C.

Consumption
Sealing cracks: 1.1 Kg/l empty volume.

Packaging: 1 Kg / 4 Kg drums

EPO ANCHOR

Universal epoxy-based adhesive.

Characteristics
- Bi-component tile adhesive.
- Free of solvents.
- High resistance to compression, flexion and adhesive strength.
- Resistant to some acids, alkali, corrosive concrete agents, cleaning agents, sea water and salt water.
- Excellent workability

Recommendations for use
EPO ANCHOR is applied in those environments where high strength to mechanical loads and resistance to chemical agents is required. The product is used for adhering tiles in industrial environments. EPO ANCHOR serves for the adhesion of TPE membranes in the dilatation joints, by resisting negative and positive pressures.

APPLICATION PROCEDURE

Surface preparation
The surface should be dry, clean, stable, slightly rough and free of materials that prevent adhesion, such as: dust, oils etc. If necessary, the surface should be pre-prepared by washing, roughening, etc. In cases of walls, they should be rubbed with a wire brush or another similar item.

Product preparation:
Component A (resin) and component B (solidifier) are supplied in two separate buckets in a predetermined proportion in weight ratio. The entire quantity of component B is added to component A. The stirring of the two components should be made for about 5 minutes, by using a low speed agitator (300 rotations/ min). It is important to stir well in the edges and bottom of the bucket to achieve a full mixture and a uniform distribution of the solidifier.

Application
Joints should be clean and dry. Apply the product through a metallic spatula in 1mm of thickness, in the same direction to the direction of the joint. Before the application of the product, 2 cm from the angle of the joint is covered on both sides with adhesive paper. After the application of the product, remove the adhesive paper. After that, place the TPE membrane with a spatula in order to avoid the creation of air bubbles. Following that, put a 5 cm wide adhesive paper in the TPE membranes, and onto that apply 1.5 mm EPO ANCHOR.

Technical data

Based	Two-component epoxy resin
Color	Grey and White
Viscosity	1,000,000 mPa.s (Spindle F; rpm 2.5)
Mixing ratio	1: 1 by weight
Density	1.75 kg / liter at 23oC
Lifetime	about 60 minutes at 23oC
Cleaning	in 45 min at 23oC
Minimum temperature hardening	+10°C
Partial hardening	after 48 h at 23oC
Complete hardening	after 7 days at + 23oC
Compressive strength	70 N / mm2 (DIN EN 196 - 1)
Bending force	> 40 N/mm² (DIN EN 196 - 1)

Storage
24 months from the production date, if preserved in its original closed packaging, in environments protected by moisture and direct exposure to sun. Storage temperature should be between +5°C and +35°C.

Consumption
As tile adhesive: Approx. 0.8 - 1 Kg/m

Packaging: 1 Kg (A+B) and 5 Kg (A+B) plastic buckets

DCW 200

Carbon fiber fabric for structural strengthening of buildings in seismic areas.

Characteristics
- Carbon fibers that continue in one direction.
- In combination with epoxy resins DCW 200, it forms a composite material.
- Strengthens external structural elements and allows the diffusion of vapors.
- High elastic resistance and insulation.

Recommendations for use
Carbon fabric DCW 200 is used as an external reinforcement, for outdoor adhesion and bonding of structural elements with the epoxy resin DCW 200. Used for the increase of mechanical forces of beams and concrete columns, for the improvement of the connection of the columns by:
- Strengthening structures with high resistance to seismic movements
- Protecting and strengthening concrete elements from corrosion.
- Increasing cargos, until the change of usage destination
- Repairing concrete structures after damage from earthquakes.

Strengthening with composite materials can be applied to concrete, wood and steel elements and retaining walls.

APPLICATION PROCEDURE

Surface preparation
The surface must be free of detached parts, plaster, paint, oil or grease. After e thorough cleaning, the surface is roughened by a metallic brush.
- Existing cracks in the concrete should be repaired by injections with EPODUR products.
- External corners must be rounded to a radius of 10 - 30 mm.
- The surface should be as flat as possible.

Application
Any superficial defects should be repaired using DCW 200. Firstly, apply DCS 2K 200 on the surface which will be treated. Then, DCW 200 is cut with scissors in the desired dimensions. After careful placement on the surface, the fabric is slowly applied by a special plastic roller in order to achieve a better contact with the surface, complete impregnation and removal of air bubbles. Fabric direction should follow the direction of elastic forces and its fibers should be as straight as possible. During the insulation of columns, the superposition of fabric should be approximately 15 - 20 cm.

Technical data	
Density of the fiber:	200 g/m^2
Density:	224 g/m^2
Thickness:	0,11 mm
Width:	60 cm (± 1 cm)
Length:	50 m (± 0,5 m)
Weight:	6,7 Kg

- If more than one layer of application is needed, the above-mentioned process is repeated. In this case, the previous layer should not be completely dry; otherwise, you should roughen the surface again.
- Following that, the fabric layer is covered on the outside wit DCW 200 and then, quartz sand is poured on the layer as long as it is still fresh, in order to apply later a protective, cement-based layer (plaster).

Packaging
Roll in 50 m long and 60 cm wide packaging.

DEUTSCH COLOR

DCS C300

Fabric with carbon fibers for structural reinforcements of concrete.

Characteristics
- Carbon fibers, steady in one direction
- Combination with epoxy resins DCS 2K 300 forms a composite material.
- Strengthening external structural elements and allows the diffusion of vapors.
- High elastic resistance and insulation.

Recommendations for use
Carbonate fabric DCS C300 is used as an outdoor reinforcement, for outdoor adhesion and bonding of structural elements with the epoxy resin DCS 2K 300. Used for the increase of mechanical forces of beams and concrete columns, for the improvement of the connection of the columns by:
- Strengthening structures with high resistance to seismic movements
- Protecting and strengthening concrete elements from corrosion.
- Increasing cargos, until the change of usage destination
- Repairing concrete structures after damage from earthquakes.

Strengthening with composite materials can be applied to concrete, wood and steel elements and retaining walls.

APPLICATION PROCEDURE

Surface preparation
The surface must be free of detached parts, plaster, paint, oil or grease. After e thorough cleaning, the surface is roughened by a metallic brush.
- Existing cracks in the concrete should be repaired by injections with EPODUR products.
- External corners must be rounded to a radius of 10 - 30 mm.
- The surface should be as flat as possible.

Any superficial defects should be repaired using EPOWRAP PRIMER.

Application
Firstly, apply DCS 2K 300 on the surface which will be treated. Then, DCS C300 is cut with scissors in the desired dimensions. After careful placement on the surface, the fabric is slowly applied by a special plastic roller in order to achieve a better contact with the surface, complete impregnation and removal of air bubbles. Fabric direction should follow the direction of elastic forces and its fibers should be as straight as possible. During the insulation of columns, the superposition of fabric should be approximately 15 - 20 cm.

Technical data	
Density of the fiber:	200 g/m^2
Density:	224 g/m^2
Thickness:	0,11 mm
Width:	60 cm (± 1 cm)
Length:	50 m (± 0,5 m)
Weight:	6,7 Kg

- If more than one layer of application is needed, the above-mentioned process is repeated. In this case, the previous layer should not be completely dry; otherwise, you should roughen the surface again.

Following that, the fabric layer is covered on the outside with DCS C300 and then, quartz sand is poured on the layer while it is still fresh. Later you can apply a protective, cement-based layer.

Packaging
Roll in 50 m long and 60 cm wide packaging.

DCS C400

Carbon plates for structural strengthening.

Characteristics
- Prefabricated tiles that consist of 100% one-way carbon fiber, found in an epoxy resin matrix
- In combination with DCS 2K 400 forms a composite material
- Strengthening of concrete structural elements
- Allows vapor diffusion
- Ensures high tensile and flexural strength

Recommendations for use
Carbon tiles DCS C400 are used as external reinforcement, for outdoor adhesion and bonding of structural elements with the epoxy resin DCS 2K 400. Used for the increase of mechanical forces of beams and concrete columns, for the improvement of the connection of the columns by:
- Strengthening structures with high resistances to seismic movements
- Protecting and strengthening concrete elements from corrosion.
- Increasing cargos, until the change of usage destination
- Repairing concrete structures after damage from earthquakes.

Strengthening with composite materials can be applied to concrete, wood and steel elements and retaining walls.

APPLICATION PROCEDURE

Surface preparation
The surface must be free of detached parts, plaster, paint, oil or grease. After thorough cleaning, the surface is roughened by a metallic brush.
- Existing cracks in the concrete should be repaired by injections with EPOLOT products.
- External corners must be rounded to a radius of 10 - 30 mm.
- The surface should be as flat as possible.

Any superficial defects should be repaired using DCS 2K Primer.

Application
Firstly, apply DCS 2K 400 on the surface which will be treated. Then, DCS C400 is put carefully on the surface. Tiles are slowly applied by a special plastic roller in order to achieve a better contact with the surface, complete impregnation and removal of air bubbles. Tile direction should follow the direction of elastic forces and its fibers should be as straight as possible.

Technical data

Based	Epoxy resin
Form	Paste
Color	Grey
Density	1,55 Kg/lit
Pot life	60 min
Adhesion strength	20 N/mm²
Elasticity module	10 N/mm²

- If more than one layer of application is needed, the above-mentioned process is repeated. In this case, the previous layer should not be completely dry; otherwise, you should roughen the surface again.
- Following that, the fabric layer is covered on the outside wit DCS 2K 400 and then, quartz sand is poured on the layer, while it is still fresh. Later you can apply a protective, cement-based layer (plaster).

Packaging
Roll in 50 m long and 60 cm wide packaging.

DEUTSCH COLOR

DCS 2K LEVEL

Bi-component, epoxy-based stucco.

Characteristics
- Bi-component stucco.
- Without solvent.
- Offers great adhesion with surfaces and gives a high physical - mechanical resistance.
- It is resistant to acids, alkalis, detergents, sea water and temperature changes.
- It's classified as a structural connector for mortars and concretes according to EN 1504-4.

Recommendations for use
DCS 2K LEVEL is used for the restoration of cracks in mortar and concrete, for anchors, as well as in cases when we want to close crevices with DCS 0.1 - 1 mm, EPODUR 0.5 - 3 mm or DCS. It bonds concrete, iron, stone and wood.

APPLICATION PROCEDURE

Surface preparation
The surface where the product will be applied must be clean, free of residues, oils or other elements that prevent adhesion.

Product preparation
Components A (resin) and B (hardener) are packaged separately from each other, having an exact predetermined mixing ratio by weight. The amount of component B is added to component A. Mixing is done through a suitable mixer for about 5 minutes. It's very important that the mixing is done very thoroughly, by mixing material in the edges and bottom of the container. The mixing of both components must be done in a clean container.

Application
DCS 2K LEVEL is applied with a spatula on a dry and clean surface.

Technical data

Based	Epoxy resin two-component
Form	Paste
Density (A)	1,85 Kg/lit
Density (B)	1,79 Kg/lit
Density (A+B)	1,83 Kg/lit
Mixing ratio	1: 1 by weight
Pot life	25 min at 20°C
Final strength	After 7 days at 23 ° C
Compressive strength	96 N/mm²
Glass transition temperature	≥ 75°C
Flexural strength	46 N/mm²

Storage
12 months, if stored in its original and unopened packaging, in environments protected by humidity and the direct exposure to sun. Storage temperature should be between +5°C and +35°C.

Consumption
Approximately 1.5 Kg/m² / mm thickness.

Packaging
15Kg (comp. A) and 5Kg (comp. B) plastic buckets

DCS 2K PRIMER

Bi-component, water-based primer.

Characteristics
DCS 2K Primer is a water-based, bi-component epoxy-base product. The product offers high physical and mechanical resistance, such as resistance to abrasion, resistance to water, acids, alkalis, petroleum products etc.

Recommendations for use
DCS 2K Primer is used as a PRIMER before you use one of the products of DCS Wrap line, to reinforce concrete structures.

APPLICATION PROCEDURE

Surface preparation
• Stable.
• Without the presence of materials that prevent adhesion such as powder, loose particles, fats, etc. The product, also, must be prepared according to the nature of the surface. After this, the surface should be cleaned from dust with a vacuum cleaner.

Application
Component A (resin) and component B (hardener) are packed in two separate buckets, in predetermined proportion to weight ratio. The entire quantity of component B should be added to component A. The mixing of the two components should continue for about 5 minutes, using a mixer at low- speed (300 rpm / min). It's important to stir well in the edges and at the bottom of the bucket, in order to achieve a complete mixture and a uniform diffusion of the hardener. DCS 2K Primer is applied as it is or diluted to 10% with water. The product can be applied with a brush or roller.

Storage
12 months, if stored in its original and unopened packaging, in environments protected by humidity and the direct exposure to sun. Storage temperature should be between +5°C and +35°C

CONSUMPTION
300 gr/m^2 per layer.

PACKAGING
3 Kg(comp. A) and 1 Kg (comp. B) plastic buckets

Technical data	
Baza:	Epoxy resin
Form:	Paste
Density Componentit A:	1,85 Kg/lit
Density Componentit B:	1,79 Kg/lit
Density A+B:	1,83 Kg/lit
Mixing ratio (A+B):	3 : 1 by weight
Pot life:	25 min in +20°C
Final strength	after 7 days at + 23 ° C
Compressive strength:	96 N/mm^2
Open time:	25 minuta në +20°C
Tg:	≥ 75°C
Flexural strength:	46 N/mm^2

DEUTSCH COLOR

DCS 2K 200

Epoxy-base, bi-component adhesive, for fabrics with carbon fiber.

Characteristics
DCS 2K 200 is a bi-component, epoxy adhesive in the form of paste.
• High adhesion with the support.
• Excellent strength and increase of resistances in compression and flexion.
• The product is classified as a structural bonding agent for outdoor concrete reinforcement, according to EN 1504 - 4.

Recommendations for use
DCS 2K 200 is used for the adhesion of carbon fabrics, for the structural reinforcement of building structural elements in systems (F.R.P).

APPLICATION PROCEDURE

Surface preparation
The surface must be:
• Chemical, sufficiently strong and stable.
• Free of materials that might prevent adhesion, such as dust, loose particles, grease or oil, etc.
• It is recommended to treat the surface mechanically by roughening it.
• If there are cracks in the concrete, they should be repaired by injection, using materials like EPODUR.
• The substrate should be as flat as possible.
• Damaged areas should be repaired using DCS 2K 200.

Mixing the components
Components A and B are packaged in two separate containers, in predetermined mixing ratio by weight. Mix thoroughly the entire amount of component A with the entire amount of component B. The components should be stirred for about 5 minutes with an adequate mixer.

Application
After mixing, DCS 2K 200 is applied on the surface through a screed or brush. Then, carbon fiber fabrics are set, and on them is exerted pressure through a dry plastic roller, in order to release the air that is between the concrete and carbonate tile.

Technical data	
Baze:	Epoxy resin
Form:	Paste
Colour:	Grey
Density:	1.55 Kg/lt
Pot life:	60 min
Adhesion strength:	20 N/mm^2
Module of elasticiy:	10 N/mm^2

Storage
24 months after date of production, if stored in unopened and original packaging, protected from direct exposure to sun and frost.

Consumption
0.7 - 1 Kg/m^2 for 1mm thickness.

Packaging
15 Kg(comp. A) and 5 Kg (comp. B) plastic buckets

DCS 2K 300

Epoxy-base, bi-component adhesive, super fluid, for fabrics with carbon fiber.

Characteristics
DCS 2K 300 is a bi-component, epoxy adhesive in liquid form.
- Ensures high adhesion with the support.
- Excellent strength and increase of resistance in compression and flexion.
- The product is classified as a structural bonding agent for outdoor concrete reinforcement, according to EN 1504 - 4.

Recommendations for use
DCS 2K 300 is used for the adhesion of carbon fabrics for the structural reinforcements of building structural elements in systems (F.R.P).

APPLICATION PROCEDURE

Surface preparation:
The surface must be:
- Chemical, sufficiently strong and stable.
- Free of materials that might prevent adhesion, such as dust, loose particles, grease or oil, etc.
- It is recommended to treat the surface mechanically by roughening it.
- If there are cracks in the concrete, they should be repaired by injection, using materials like EPODUR.
- The substrate should be as flat as possible.
- Damaged areas should be repaired using DCS 2K LEVEL.

Product preparation
Components A and B are packaged in two separate containers, in predetermined mixing ratio by weight. Mix thoroughly the entire amount of component A with the entire amount of component B. The components should be stirred for about 5 minutes with an adequate mixer.

Application
After mixing, DCS 2K 300 is applied on the surface through a screed or brush. Then, carbon fiber fabrics are set, and on them is exerted pressure through a dry plastic roller, in order to release the air that is between the concrete and carbonate tile.

Technical data	
Baze:	Epoxy resin
Form:	Paste
Colour:	Grey
Density:	1.55 Kg/lt
Pot life:	60 min
Adhesion strength:	20 N/mm^2
Module of elasticiy:	10 N/mm^2

Storage
24 months after date of production, if stored in unopened and original packaging, protected from direct exposure to sun and frost.

Consumption
0.5 - 1.0 Kg/m^2 for 1mm thickness

Packaging
15 Kg(comp. A) and 5 Kg (comp. B) plastic buckets

DEUTSCH COLOR

DCS 2K 400

Epoxy-base, bi-component adhesive, for tiles with carbon fibers.

Characteristics
DCS 2K 400 is a bi-component, epoxy adhesive in form of a paste.
- Ensures high adhesion with the support.
- Excellent strengthand increase of resistances in compression and flexion.
- The product isclassified as a structural bonding agent for outdoor concrete reinforcement, according to EN 1504 - 4.

Recommendations for use
DCS 2K 400 is used for the adhesion of carbon tiles, for the structural reinforcements of building structural elements in systems (F.R.P).

APPLICATION PROCEDURE

Surface preparation
The surface must be:
- Chemical, sufficiently strong and stable.
- Free of materials that might prevent adhesion, such as dust, loose particles, grease or oil, etc.
- It is recommended to treat the surface mechanically by roughening it.
- If there are cracks in the concrete, they should be repaired by injection, using materials like EPODUR.
- The substrate should be as flat as possible.
- Damaged areas should be repaired using DCS 2K LEVEL.

Product preparation
Components A and B are packaged in two separate containers, in predetermined mixing ratio by weight. Mix thoroughly the entire amount of component A with the entire amount of component B. The components should be stirred for about 5 minutes with an adequate mixer.

Application of product
After mixing, DCS 2K 400 is applied on the surface through a screed or brush. Then, carbon fiber fabrics are set, and on them is exerted pressure through a dry plastic roller, in order to release the air that is between the concrete and carbonate tile.

Technical data	
Baze:	Epoxy resin
Form:	Paste
Colour:	Grey
Density:	1.55 Kg/lt
Pot life:	60 min
Adhesion strength:	20 N/mm^2
Module of elasticiy:	10 N/mm^2

Storage
12 months after date of production, if stored in unopened and original packaging, protected from direct exposure to sun and frost.

Consumption
1.5- 2.0 Kg/m² for 1mm thickness

Packaging
15 Kg(comp. A) and 5 Kg (comp. B) plastic buckets

ACR PRIMER

Cement-based, non-corrosive primer, reinforcer of iron alloys in construction structures.

Characteristics
ACR Primer can be applied as a reinforcer primer and protector in iron alloys, steel corrosion and rust, acting as a bonding layer between old concrete and repaired concrete.

Recommendations for use
- To protect steel in the construction structures during possible repairs of concrete structures that are damaged due to carbonization, earthquakes, etc.
- To protect steel in structures exposed to wet weather conditions.

Benefits
- High efficiency of corrosion
- Good mechanical properties
- Easy to apply
- Allows the concrete to perform a natural breathing
- No content of volatile substances
- Non inflammatory, friendly to the environment and applicant.

Consumption
0,2-0,25 Kg/m^2

Packaging
3 Kg plastic buckets

Technical data	
Form:	Prah Cement
Color:	Reddish
The demand for water:	27% the mass fraction
Density apparent dry mortar:	1.40 Kg/l
Density apparent of fresh mortar:	1.90 Kg/l
Resistance to compression:	≥ 32.00 N/mm^2
Tensile strength:	≥ 8.00 N/mm^2
Open time:	1 hour in +20°C

DEUTSCH COLOR

BETON CONTACT

Bonding layer, used to treat smooth surfaces of concrete, for indoor and outdoor use.

Characteristics
- Acrylic resin-base, liquid material used for the treatment of smooth concrete surfaces.
- It ensures a good bonding of concrete with the filling layers, such as: mortar, grout, stucco, waterproof, etc.
- The use of this material eliminates the need to use cement sprays in smooth concrete surfaces.
- The treatment of the surfaces with BETON CONTACT ensures an excellent workability and notable facility in the application of the other coats.
- It is a ready for use product.
- Uniforms the absorbing rate of the surface where it will be applied.

Product properties
- It reduces water-absorbing ability of the support
- Neutralizes the pH value
- No solvents in its composition

Recommendations for use
It used to treat smooth concrete surfaces which later will be filled with filling mortar, grout, etc. It is used as insulation, fixer for surfaces which later on will be painted or coated with other layers, such as: mortar, grout, etc.

APPLICATION PROCEDURE

Support preparation
The support where BETON CONTACT will be applied should be dry and clean free of dust, petroleum, wax and varnishes residues, or anti-adhesion materials. The cleaning of the support is done manually or mechanically.

Product preparation
The product must be stirred manually in a bucket, and after that it is ready to be used. If necessary, the product can be diluted with water up to 10%.

Application
The product is applied with a brush or roller, thus creating a uniform opening in the entire surface. You should wait for at least 12 hours for BETON CONTACT to get dried, depending on the temperatures, before applying the following product on the surface. Low temperatures and moisture presence significantly increase the drying time. You should not apply it when the temperature of the support is lower than 5°C, and make sure to not water the support for the next 24 hours after application.

Consumption: 0,2 - 0,25 Kg/m^2 mm thickness

Packaging: 5 Kg / 20 Kg plastic buckets

Technical data	
Form:	Liquid
Color	Reddish
Shelf-life-Shelf-life - storage	24 months in the original packaging in a dry place
Combustibility:	Incombustible
Application temperature:	+5^{0}C up to +35^{0}C
Density:	1.4 Kg/l

WEIßZEMENT

White cement with high physical and mechanical resistances.

Characteristics
White cement with high physical and mechanical resistances, which is used for the production of concrete, mortar, different finishes, with or without pigment. Reacts well with water due to its porosity and its selected granulometry smaller that 90 microns.

Recommendations for use
White cement may be used for the production of all types of concrete requiring white color or any other color. Also, the product can be used to produce traditional mortar, as well as the finishes. To produce quality mortar, it is recommended to mix 20Kg white cement with 150Kg washed sand without clay, 0-1.4 + 35 liters water.

Packaging: 25 Kg paper bags

Technical data	
Form:	Powder
Colour:	White
Specific surface:	450 Kg/m^2
Setting time:	240 min

DEUTSCH COLOR

DEUTSCH COLOR

Additives

ADMIX S2

Additive for adhesives of FM line and tile stuccos (INTENCE, MAXI FUGEN).

Characteristics
Admix S2 is an acrylic-based mixture which significantly improves properties of tile adhesives and stuccos.

- Significantly increases the adhesive ability to the support.
- Increases strength in flexion and compression.
- Significantly improves flexibility.
- Significantly increases resistance to abrasion and friction.
- It gives the product impermeability to water.
- Improves chemical resistance to atmospheric agents.

Recommendations for use
ADMIX S2 is used as a reinforcing additive for tiles' adhesives and stuccos, in cases where high impermeability to water is required and in cases where an increase of mechanical strength and resistance to chemical agents are required. It is recommended to mix the tile joints fillers INTENSE, PROFESSIONAL W11 and MAXI FUGEN with ADMIX S2, in cases, when we want to apply them on walls or floors that are exposed to atmospheric corrosive agents, humidity, high temperature, mold, etc. In such cases, ADMIX S2 ensures the product high resistance consistency over time.

Product preparation
ADMIX S2 is diluted in the water in which will be mixed the adhesive or tiles' stucco. Mixing is done at ratios 1: 1 or 1: 2 in volume.

Storage
18 months after the date of production, if stored in the original packaging, unopened, at temperatures between +5°C and +35°C. It should be protected from direct exposure to sun and frost.

Consumption: 1-3 Kg / 25Kg

Packaging: 1 Kg / 5Kg / 10 Kg plastic bottles

Technical data	
Form:	Liquid
Colour:	White
Density:	1,01 Kg/l
pH:	7
Solid content:	22%
Dosage report:	10% - 100%
Viscosity:	30 MPa.s

DEUTSCH COLOR

LATEX

Is an additive for the improvement of cement- based mortars.

Characteristics
Latex is a synthetic polymer use to improve the cement-based mortar and concrete layers.

- As a bonding layer between old and new concrete or mortar.
- For the improvement of mortar or lime and cement-based refinishes
- Increases the adhesiveness of mortar and water impermeability.
- Used for waterproof cement-based mortars providing resistance to hydrostatic pressure.
- Used to improve the resistance of mortars in foundations.
- Improves considerably the adhesion capacity of refinishes.
- Protects concrete surfaces from dehydration.
- Latex increases significantly the adhesiveness, mechanical resistance, elasticity and impermeability from water in cement-based construction products.

Surface preparation
The supports on which the product will be applied must be free from all dust, grease, oils, residues, paints etc.

Application of product
Latex is mixed with water and the mixing ratio depends on the characteristics we want to give to mortars and tile adhesives. Latex mixing ratio of water should not be lower than 1: 5. If this report is lower, there will not be any improvement and reinforcement in the properties of cement-based mortars and adhesives. For the preparation of concrete and traditional mortar, initially pour Latex and then cement and sand, in order to avoid the formation of granules. Its use increases considerably the product's workability and its drying time. All cement-based mortars that are mixed with Latex are characterized by good adhesiveness and higher elasticity compared to other mortars that are not mixed with Latex.

Storage
The product can be stored for 18 months in the original and unopened packaging at temperatures between + 5°C to + 35°C. Avoid exposure to the sun and frost.

Consumption: 1-3 Kg / 25Kg

Packaging: 1Kg, 5Kg, 10Kg plastic bottles

Technical data	
Form:	Liquid
Colour:	White
Density:	1,04 Kg / l
pH:	7
Solid content:	35%
Dosage report:	10% - 100%
Viscosity:	30 Mpa.S

PLASTOLIT

Mortar plasticizer- Lime substitute

Characteristics
Plastolit is a liquid product that gives plasticity, bonding strength and all lime advantages to cement-based mortar. It is the ideal supplement for the production of mortar for construction, plaster, weak layers, etc. It is added to the water that is poured to mortar, and thanks to its plasticity, the quantity of required water is smaller.

Product preparation
Reduce the amount of water for mortar by substituting the lime with PLASTOLIT.
- Mortar for walls and poor layers: Plastolit 50g to 25 Kg cement (0.2%)
- For the preparation of 1m³ mortar, are needed:
  Cement: 225 Kg
  Sand: 0.90 m³
  PLASTOLIT: 450 g
- For the preparation of plastering mortar:
  75 g PLASTOLIT per 25 Kg cement (0.3%).

Application
PLASTOLIT provides a better workability when mixed with sand of selected granulometry. Additional dosage (more than 0.4% of cement weight) will reduce mortar hardening.

Storage
The product can be stored for 18 months in the original and unopened packaging at temperatures between + 5°C to + 35°C. Avoid exposure to sun and frost.

Consumption: 300-500 gr/100 Kg

Packaging: 1 Kg / 5 Kg / 10 Kg plastic bottles

Technical data	
Form	Liquid
Color	Brown
Density	1,05 kg / l
pH:	7
Dry residue:	50%
Dosage report:	0.2% to 0.5% compared to cement
Slip	50 mPa.s 2%
Alkalinity:	2%

DEUTSCH COLOR

ADMIX CEM

Hydro isolation powder for mortar and concrete, without chloride content.

Characteristics
- Reacts with the cement during the hydration process.
- It enables the growth of mineral substances that block the capillaries of concrete and mortar, ensuring high water impenetrability against mortar or concrete.
- It does not require increasing the amount of water during mixing.
- Does not contain chlorides.

Recommendations for use
Additional hydro isolation for plaster and concrete placed in pools, pool water tanks. Also used as an additional product in the preparation of plaster mortars on facades, foundation concrete walls, etc. It is used in cases when we want to concrete tunnels, galleries and for the stabilization of mountain slopes, etc.

Application
Admix cem can be added to concrete or mortar in this case. The mixers must process the concrete for an additional 3 to 5 minutes, to achieve uniform distribution across concrete or mortar.

Storage
2 years from production date.

Consumption
1 Kg / 1 bag of cement.

Packaging: 2 Kg / 5 Kg plastic bags

Technical data	
Form:	Powder
Dosage:	2Kg per 100 Kg ciment
Colour:	White
Density:	0,95 Kg/l

FLUIDCRET 05

Plasticizer, Type A - additive for waterproofing in concrete preparation.

Characteristics
Plasticizer, Type A - additive for waterproofing in concrete preparation. Fluidcret 05 is a liquid additive that acts as a plasticizer and waterproofing agent in concrete and, thus offering the following advantages:

- Significantly increases water impermeability in positive and negative pressure or capillary absorption.
- Improves workability without the need to increase the amount of water.
- Eliminates the air within the concrete mass.
- Does not contain chlorides and other irritating agents.
- It is compatible with all types of Portland cement.

Recommendations for use
Fluidcret 05 is a necessary additive for the preparation of concretes with high resistance to compression, for concretes exposed to atmospheric agents, as well as for concrete that will immerse into the water.

APPLICATION PROCEDURE

Product preparation
Fluidcret 05 can be added:
- In the mixer during the preparation of concrete.
- In pre - prepared concrete before use. In this case, concrete mixer must mix the concrete for an additional 3-5 minutes, in order to achieve a uniform distribution across the concrete mass.

Storage
18 months after production date, if the product is stored in original and unopened packaging, at temperatures between +5°C and +35°C and protected from direct exposure to sun and frost.

DOSAGE
0.3 - 0.5 Kg per 100 Kg cement

Consumption: 0.2- 1 Kg/m^2

Packaging: 5Kg / 20 Kg / 100 Kg plastic bottles

Technical data	
Color	Dark Brown
Density	1,08-1,14 kg/lit
pH	8,00 ± 2,00
Chloride content	Chloride free
Maximum alkali content	≤ 4.0% by weight
Dry residue	30%

DEUTSCH COLOR

FLUIDCRET AC

Accelerator for concrete drying and anti-freezing agent

Characteristics
Liquid additive that accelerates drying time and allows strengthening at low temperatures. It does not contain free chlorine or other irritating agents. It does not have any effect to the resistance of concrete, according to standard EN 934-2: T6.

Recommendations for use
- Strengthening of concrete at low temperatures.
- Used in those parts where rapid drying is required (anchorages, repairs etc.).

APPLICATION PROCEDURE

Product preparation
Fluidcret AC is added:
- In the water, during the preparation of concrete.
- In prepared concrete, before it is used. In this case, it is necessary for the mixing to continue for 3-4 minutes in addition, to achieve a uniform distribution of Fluidcret AC.

Dosage
1.0 to 2.0 Kg per 100 Kg cement, depending on the time required.
Data of Fluidcret AC for a standard mixing ratio:
1.0 % in ratio to the weight of cement.

Drying Time	Reducing drying time
0% 480 min	0 min
1.0% 410 min	70 min
1.5% 390 min	90 min
2.0% 375 min	105 min

Note
- Concrete components (aggregates, water, cement) must be at temperatures higher than 0°C.
- Avoid water additions for a better workability and the ratio of water/ cement should be as low as possible.
- The concrete surface must be protected during the drying with plastic sheet or other materials available, to reduce losses of humidity from temperatures.

Technical data	
Form:	Liquido
Colour:	Brown
Density according to ISO 758 (g / cm3)	1.07 ± 0.02 at +20°C
The main function	Improved maneuverability and reduced water consumption.
Classificatioon according EN 934-2:	Increased workability and reduced water consumption.
Classification ASTM C494:	Type G
Classification ASTM C1017:	Type II
Cloride content according EN 480-10 (%):	< 0.1
Alcalinity according EN 480-12 (%):	< 2.5
pH according to iso 4316	6.0 ± 1.0

Storage
18 months from the date of production, if the product is stored in the original and unopened packaging, at temperatures between + 5°C and + 35°C, and protected from direct exposure to the sun and frost.

Consumption: 300-500 gr / 100 Kg cement

Packaging: 5 Kg / 20 Kg / 100 Kg plastic bottles

FLUIDCRET S20

Plasticizer, Type A - additive for waterproofing in concrete preparation.

Characteristics
FLUIDCRET S20 consists of a water solution containing acrylic polymers (with no formaldehyde). The polymers can efficiently disperse the cement grains and they can facilitate a slow development of hydration products within the concrete.

Recommendations for use
Concretes manufactured with FLUIDCRET S20 have a high level of workability (consistency class S4 or S5, according to EN 206-1), and are consequently easy to apply when fresh. At the same time they offer excellent mechanical performances when hardened. FLUIDCRET S20 is particularly suitable for ready-mixed concrete and wherever there is the need for a strong water reduction, along with different consistency classes and with long slump retention. Its performances make it particularly suitable for manufacturing self-compacting concretes since FLUIDCRET S20 can ensure high workability and, at the same time, it does not reduce the concrete mechanical strengths at early age. The main applications of FLUIDCRET S20 are the production of ready-mixed concrete:
• With high mechanical strengths and long slump retention;
• With strength class Rck 25-50 N/mm²;
• Designed for waterproof and long lasting works in the exposure classes according to EN 206-1;
• self-compacting concretes.

APPLICATION PROCEDURE
FLUIDCRET S20 develops maximum dispersing action when added after the other mixture ingredients (cement, aggregates, mineral addition or filler and at least 80% mixing water).

COMPATIBILITY WITH OTHER PRODUCTS
FLUIDCRET S20 admixture is compatible with other products for preparing special concretes, especially with:
• Hardening accelerating admixtures
• Air entraining agents
• Fly ash
• Different types of limestone fillers for manufacturing self compacting concrete and any other type of concrete that requires these fillers;
• Form-release compounds

DOSAGE
Dosage is by volume from 0.5 to 1 Kg per 100 kg of cement. Different dosages from those suggested must be previously tested through concrete trials.

Technical data

Form:	Liquid
Colour:	Dark Brown
Density according to ISO 758 (g/cm³):	1.07 ± 0.02 at +20°C
Main action:	Increase workability and reduction of mixing water and slump retention over long periods
Classification according to EN 934-2:	Set retarding, high range water reducing, super plasticizer, tables 11.1 and 11.2
Classification ASTM C494:	Type G
Classification ASTM C1017:	Type II
Cloride content according EN 480-10 (%):	< 0.1
Alcalinity according EN 480-12 (%):	< 2.5
pH according to iso 4316	6.0 ± 1.0

PACKAGING
FLUIDCRET S20 is available in canisters of 20kg

STORAGE
Store in sealed containers and protect from frost. Exposure to direct sunlight can provoke variations of the color tone without altering in any way the performances of the product.

DEUTSCH COLOR

FLUIDCRET S25

Super plasticizer based on acrylic polymer for ready-mixed concrete with long slump retention.

Characteristics
FLUIDCRET S25 consists of a water solution containing acrylic polymers (with no formaldehyde). The polymers can efficiently disperse the cement grains and they can facilitate a slow development of hydration products within the concrete.

Recommendations for use
Concretes manufactured with FLUIDCRET S25 have a high level of workability (consistency class S4 or S5, according to EN 206-1), and are consequently easy to apply when fresh. At the same time they offer excellent mechanical performances when hardened. FLUIDCRET S25 is particularly suitable for ready-mixed concrete and wherever there is the need for a strong water reduction, along with different consistency classes and with long slump retention. Its performances make it particularly suitable for manufacturing self-compacting concretes since FLUIDCRET S25 can ensure high workability and, at the same time, it does not reduce the concrete mechanical strengths at early age. The main applications of FLUIDCRET S25 are the production of ready-mixed concrete:
• With high mechanical strengths and long slump retention;
• With strength class Rck 25-50 N/mm²;
• Designed for waterproof and long lasting works in the exposure classes according to EN 206-1; • self-compacting concretes.

APPLICATION PROCEDURE
FLUIDCRET S25 develops maximum dispersing action when added after the other mixture ingredients (cement, aggregates, mineral addition or filler and at least 80% mixing water).

COMPATIBILITY WITH OTHER PRODUCTS
FLUIDCRET S25 admixture is compatible with other products for preparing special concretes, especially with:
• Hardening accelerating admixtures
• Air entraining agents
• Fly ash
• Different types of limestone fillers for manufacturing self compacting concrete and any other type of concrete that requires these fillers;
• Form-release compounds

DOSAGE
Dosage is by volume from 0.5 to 1 Kg per 100 kg of cement. Different dosages from those suggested must be previously tested through concrete trials

Technical data

Form:	Liquid
Colour:	Brown
Density according to ISO 758 (g/cm³):	1.07 ± 0.02 at +20°C
Main action:	Increase workability and reduction of mixing water and slump retention over long periods
Classification according to EN 934-2:	Set retarding, high range water reducing, super plasticizer, tables 11.1 and 11.2
Classification ASTM C494:	Type G
Classification ASTM C1017:	Type II
Cloride content according EN 480-10 (%):	< 0.1
Alcalinity according EN 480-12 (%):	< 2.5
pH according to iso 4316	6.0 ± 1.0

PACKAGING
FLUIDCRET S25 is available in canisters of 20kg

STORAGE
Store in sealed containers and protect from frost. Exposure to direct sunlight can provoke variations of the color tone without altering in any way the performances of the product.

FLUIDCRET G

Concrete drying retardant. Reducer of the amount of water, and plasticizer.

Characteristics
Plasticizer, Type A - additive for waterproofing in concrete preparation. Fluidcret G is a liquid additive that acts as a plasticizer and waterproofing agent in concrete, thus offering the following advantages:
- Significantly increases water impermeability in positive and negative pressure or capillary absorption.
- Improves workability without the need to increase the amount of water.
- Eliminates the air within the concrete mass.
- Does not contain chlorides and other irritating agents.
- It is compatible with all types of Portland cement.

Recommendations for use
Fluidcret G is a necessary additive for the preparation of concretes with high resistance to compression, for concretes exposed to atmospheric agents, as well as for concrete that will immerse into water.

Instructions for use
- Fluidcret G is suitable for all types of Portland cement.
- An overdose can cause accelerated drying but does not affect the final strength of the concrete.
- If the material is frozen, turn the temperature to + 5 ° C and mix it until it is homogenized again.

Dosage
0.3 - 0.5 Kg per 100 Kg cement.

Storage
18 months after production date, if the product is stored in original and unopened packaging, at temperatures between +5°C and +35°C and protected from direct exposure to sun and frost.

Packaging: 5 Kg / 20 Kg / 100 Kg plastic bottles

Technical data	
Form:	Liquid
Colour:	Brown
Density:	1,05 Kg/l
pH:	9
Solid content:	32%
Dosage:	0.5% - 1% in relation to cements
Viscosity:	50 MPa.s
Alkaliniteti:	2%

DEUTSCH COLOR

RECRET B

Retarder of the drying of concrete - Reducer of the amount of water and plasticizer.

Characteristics
Recret B is a liquid additive that delays the drying of concrete, extending the time in which the concrete has plasticity. At the same time, it reduces the amount of water needed for workability and by holding stable the amount of water in the mixture, it improves workability.
- In addition to drying time, it provides very good hydration of cement, thus resulting in a significant increase of initial and final resistances of concrete.
- Slows down concrete coagulation and prevents division of aggregates
- Significantly prevents cracks that are caused by contractions of concrete.
- Reduces water absorption in concrete due to the reduction of porosity. Recret B is an essential supplement for preparing high quality concrete.
- Improves the flow of concrete and slows drying.
- Facilitates the transportation of ready-made concrete over long distances, especially at high temperatures.
- Strengthening development does not cause delays in the removal of wood forms.
- In accordance with standard ELOT EN 934-2: 2001, Table 10.
- Reduction of the water amount in the mixture for concrete preparation with the determined features achieved by the addition of Recret B, allows reduction of cement quantity in the same percentage. By keeping constant the report water / cement, the produced concrete retains the desired quality.

Effectiveness
For each allowed dosage amount, a deduction of water is reached up to a ratio of 5-18%. Respectively, an increase happens in the final strength by 6-11%. The starting time of coagulation ranges from 150 minutes to 200 minutes, while the final drying time ranges from 180 minutes to 240 minutes.

Dosage
Allowed dosage: 0.3 - 0.5 % in ratio of cement weight.

Storage
18 months after production date, if the product is stored in original and unopened packaging, at temperatures between +5°C and +35°C and protected from direct exposure to sun and frost.

Technical data	
Form:	Liquid
Colour:	Brown
Density:	1,05 Kg/l
pH:	9
Solid content:	30%
Dosage:	0,2% - 0,5% in relation to cements
Viscosity:	50 MPa.s
Alkaliniteti:	2%

NOTE
- Recret B is suitable for all types of Portland cement.
- An overdose can cause accelerated drying but does not affect the final resistances of concrete.
- If the material freezes, turn the temperature in +5°C and stir it until it homogenizes again

Packaging: 5 Kg / 20 Kg / 100 Kg plastic bottles

ISOCRET

Waterproofing additive for concrete

Characteristics
Isocret is a liquid additive which gives concrete waterproof quality. The product reacts chemically with the lime that is formed from hydration of cement and creates salts which, on the one side, block capillary pores but on the other side, give concrete hydrophobic properties. An important quality of Isocret is that, compared to other additives of its category, it does not cause reduction of the final resistances of concrete. (According to table 9 of standard ELOT EN 934 - 2 the reduction of resistance in compression is allowed up to the scale of 15%).

Recommendations for use
Isocret is used to improve concrete resistance from water absorption, and also to improve water impermeability in cases of foundations, basements walls, water reservoirs, pools, wells, tunnels, etc. The product can be added during the preparation of concrete or before concrete casting.
- The waterproof of concrete mixture eliminates the risk of frost damages and prevents formation of stains.
- In engineering projects such as highways, bridges, hydraulic platforms, etc., it increases considerably concrete resistance from salts that were used as antifreeze.
- Creation of chemical compounds that block pores does not prevent ventilation of the structure.
- In accordance with standard ELOT EN 934 - 2:2001, Table 9.

The impermeability of concrete:
Water absorption through concrete is a multifaceted problem that is analyzed in two steps:
a) The capillary absorption of water in simple contact (without pressure) with concrete.
b) Pressured water penetration into concrete.
Standard EN 934-2: 2001 requires reduction of water absorption into concrete to the extent of ≥ 40% by the addition of a waterproofing additive.

Dosage
Allowed dose: 0.2 - 0.4% dependable on the weight of cement
Recommended dosage: 0.3% dependable on the weight of cement

Storage
18 months in original and unopened packaging, in temperatures between +5°C and +30°C. The material must be protected from direct radiation of sun and from frost.

Consumption: 300-500gr/100 Kg cement

Packaging: 5 Kg / 20 Kg / 100 Kg plastic bottles

Technical data	
Form:	Liquid
Colour:	White
Density:	1,05 Kg/l
pH:	7
Solid content:	50%
Dosage:	0,2% - 0,5% in relation to cements
Viscosity:	50 MPa.s
Alkaliniteti:	2%

DEUTSCH COLOR

POLY FIBER

Polypropylene fibers with a length of 6 and 12 mm, for strengthening concrete and mortar.

Characteristics
- High resistance to weather conditions.
- Good workability.
- Forms a stable and long-lasting structure.

Recommendations for use
Poly Fiber is suitable to create decorative coatings with excellent waterproof, adhesive and elastic qualities. It is also used to create decorative coatings on surfaces filled with cement mortar or basic thermal insulating mortar, which have been flattened beforehand with MEGAGRUND or one product from POLY FIBER line of products. It is also used in outdoor thermal insulation systems as a decorative coating.

Application
The support where Poly Fiber will be applied should be beforehand cleaned from dust petroleum, oils, varnishes, wax residues, and from anti-adhesion materials. The cleaning of oils, varnishes, wax or anti-adhesion materials is done mechanically or manually. Before applying POLY FIBER, level the support with the dry primer MEGAGRUND. Supports should be flat and mechanically stable, in function of intended use.

Manner of application
Poly Fiber is applied through a straight, metallic screed directly on the surface which has been pre-treated with MEGAGRUND LIQUID primer. After putting the product on the support, rub it with a plastic screed, to create the structures you wish.

Storage
18 months after manufacture date, if stored in original and unopened packaging and protected from direct exposure to sun and frost.

Consumption:
600-900gr / m^3 in concrete
900-1200gr / m^3 in mortar

Packaging: 600gr / 900 gr plastic bags

Technical data	
Length	12
Fiber density	0.91
Diameter	33
Toughness at break	Mpa 599
Elongation until breaking	% 27.6
Modulus (1% tangential line)	Mpa 4665
Fusion point	169
Resistance to acids and bases	Strong
Types of fibers	Polypropylene
Color	White

COATINGS DECORATIVE

CREATIVE PUTZ 1. 2. 3

Decorative coating that serves for the treatment of facades and indoor surfaces.

Product Classification :
Creative Putz 1.2.3 is classified according to EN 998 - 1.

Characteristics
• For indoor and outdoor use.
• High resistance to weather conditions.
• Good workability.
• Forms a stable and long-lasting structure.

Recommendations for use
Creative Putz 1.2.3 is suitable to create decorative coatings with excellent waterproof, adhesive and elastic qualities. It is also used to create decorative coatings on surfaces filled with cement mortar or basic thermal insulating mortar, which have been flattened beforehand with MEGAGRUND or one product from the TB 400 / TB 800 line of products. It is also used in outdoor thermal insulation systems as a decorative coating.

APPLICATION PROCEDURE

Surface preparation
The medium in which the product will be applied must be cleaned in advance from dust, oils, paints, wax residues, and anti-adhesive materials. There cleaning of oils, paints, waxes or anti-adhesive materials is done mechanically or manually. Before applying Creative Putz 1.2.3, the medium must be leveled and flattened with the dry Mineral Megagrund primer. The mediums must be flat and mechanically stable, in purpose of use.

Application of product
Creative Putz 1.2.3 is applied through a straight, metallic screed directly on the surface which has been pre-treated with MEGAGRUND LIQUID primer. After putting the product on the support, rub it with a plastic screed, to create the structures you wish.

Storage
12 months after manufacture date, if stored in original and unopened packaging and protected from direct exposure to sun and frost.

Consumption: 2.5- 5 Kg/m^2 depends on grain size

Packaging: 25 Kg paper bags

Technical data	
Grain dimension (mm) - 1 mm - 2 mm - 3 mm	Consommation (Kg/m^2) 2.5 Kg/m^2 3.0 Kg/m^2 3.5 Kg/m^2
Form	Cement powder
Color	White
Volumetric weight	1350 Kg/m^3
The amount of water for the preparation	25% - 27%
Volumetric weight of the mortar	1550 Kg/m^3
Application temperature	+5^{o}C to +35^{o}C

DEUTSCH COLOR

SMARTEC 1.2.3

Decorative coating with acrylic and synthetic fibres base for treatment of outdoor facades and indoor surfaces.

Characteristics
• Strong bonding
• Good mechanical properties
• Does not need painting
• Vapour penetration
• Indoor and outdoor applications
• Does not shrink and prevents cracks
• Flexibility and excellent bonding with the substrate

Recommendations for use
It is used to create decorative structures of the walls on all the living indoor spaces, as well on facades, concrete surfaces, etc. It is used to decorate facade surfaces made with plastering system, and with thermal insulation system.

APPLICATION PROCEDURE

Surface preparation
Clean the support prior to applying Smartec 1.2.3 from dust, diesel, oil, varnish, wax residues, as well as anti-bonding materials. Prior to the application of the product, level the support with the dry liner Mineral Megagrund or TB line product. Then treat the surface with Megagrund liner. The supports must be flat and mechanically stable in function of the purpose of use.

Product preparation
Smartec 1.2.3 is ready for application. Only a pre-mix of the product is enough to re-homogenize it and then it can be applied immediately.

Application
Application of product Smartec 1.2.3 is done with a metal notched trowel. Spread the product on the surface to be rendered and bring it to the required thickness. The application thickness shall not exceed 3 mm of the maximum stone dimension. After the product is applied with a metal notched trowel, rub and create the desired structure with a plastic notched trowel. In this case, the movements of plastic trowel are to be controlled and are done depending on the structure to be created. Clean the spatula and other working tools with water immediately after application.

Storage
12 months if stored in a dry place, away from heat sources, at a temperature between +5°C dhe +30°C. Protect it from frost.

Consumption: 2.5- 5 Kg/m^2 depends on grain size

Packaging: 25 Kg plastic buckets

Technical data	
Basis:	Copolymer silicate-silicon
Density EN ISO 2811-1:	1,75±0,02 gr/ml
Dry residue EN ISO 3251:	80%
Mixing ratio:	Ready for use
Colour:	White
Tensile adhesion strength in concrete:	≥ 0,8 N/mm^2
Consumption: Structure 1.5 mm complete: Structure 2 mm complete: Structure 2 mm complete: Structure 3 mm complete:	 2.0- 2.5 Kg/m^2 2.5- 2.7Kg/m^2 2.7-3.2 Kg/m^2 4.5- 5.0 Kg/m^2
Drying time:	24 hours
Resistance to humidity:	W2

SILICAT PUTZ

Decorative coating with silicate-silicon base for treatment of outdoor facades and indoor surfaces.

Characteristics
• Final aesthetic structure
• Contains special additives
• It is characterized by very good workability

Recommendations for use
It is used to create decorative structures of the walls on all the living indoor spaces, as well on facades, concrete surfaces, etc. It is used to decorate facade surfaces made with plastering system, and with thermal insulation system.

APPLICATION PROCEDURE

Surface preparation
Clean the support prior to applying Silicat Putz from dust, diesel, oil, varnish, wax residues, as well as anti-bonding materials. Oils, varnishes, waxes or anti-bonding materials are cleaned mechanically or manually. Prior to the application of the product, level the support with the dry liner Mineral Megagrund or TB line product. Then, treat the surface with Megagrund liner. The base must be flat and mechanically stable in function of the purpose of use.

Product preparation
Silicat Putz is ready for application. Only a pre-mix of the product is enough to re-homogenize it and then it can be applied immediately.

Application
Application of product Silicat Putz is done with a metal notched trowel. Spread the product on the surface to be rendered and bring it to the required thickness. The application thickness shall not exceed 3 mm of the maximum stone dimension. After the product is applied with a metal notched trowel, rub and create the desired structure with a plastic notched trowel. In this case, the movements of plastic trowel are to be controlled and are done depending on the structure to be created. Clean the spatula and other working tools with water immediately after application.

Storage
24 months if stored in a dry place, away from heat sources, at a temperature between +5°C dhe +30°C. Protect it from frost.

Packaging: 25 Kg plastic buckets

Technical data

Basis:	Copolymer silicate-silicon
Density EN ISO 2811-1:	1,75±0,02 gr/ml
Dry residue EN ISO 3251:	80%
Mixing ratio:	Ready for use
Colour:	White
Tensile adhesion strength in concrete:	≥ 0,8 N/mm^2
Consumption:	
Structure 1.5 mm complete:	2.5-3.0 Kg/m^2
Structure 2 mm complete:	3.0-3.5Kg/m^2
Structure 2 mm complete:	3.5-4.0 Kg/m^2
Structure 3 mm complete:	4.5-5.0 Kg/m^2
Drying time:	24 hours
Resistance to humidity:	W2

DEUTSCH COLOR

ACRYL PUTZ TT

Silicon based, liquid scratched plaster grout with excellent resistance to weather conditions.

Characteristics
• Strong bonding
• Does not stop shrinking and cracks
• The façade painting is not needed
• Indoor and outdoor applications
• Very good vapour conductivity
• High flexibility and excellent bonding with the substrate

Recommendations for use
It is used to create decorative structures of the walls on all the living indoor spaces, as well on facades, concrete surfaces, etc. It is used to decorate façade surfaces made with plastering system, and with thermal insulation system.

APPLICATION PROCEDURE

Surface preparation
Clean the support prior to Acryl Putz TT from dust, diesel, oil, varnish, wax residues, as well as anti-bonding materials. Oils, varnishes, waxes or anti-bonding materials are cleaned mechanically or manually. Prior to Application of product level the support with the dry liner Mineral Megagrund or TB line product. Then treat the surface with Megagrund liner. The supports must be flat and mechanically stable in function of the purpose of use.

Product preparation
Acryl Putz TT is ready for application. Only a pre-mix of the product is enough to re-homogenize it and then it can be applied immediately.

Application
Application of product Acryl Putz TT is done with a metal notched trowel. Spread the product on the surface to be rendered and bring it to the required thickness. The application thickness shall not exceed 3 mm the maximum stone dimension. After the product is applied with e metal notched trowel, rub and create the desired structure with a plastic notched trowel. In this case, the movements of plastic trowel are to be controlled and are done depending on the structure to be created. Clean the spatula and other working tools with water immediately after application.

Storage
24 months if stored in a dry place, away from heat sources, at a temperature between +5°C dhe +30°C. Protect it from frost.

Technical data

Basis:	Acrylic copolymer
Density EN ISO 2811-1:	1,75±0,02 gr/ml
Dry residue EN ISO 3251:	80%
Mixing ratio:	Ready for use
Colour:	White
Tensile adhesion strength in concrete:	≥ 0,8 N/mm^2
Consumption:	
Structure 1.5 mm complete:	2.0- 2.5 Kg/m^2
Structure 2 mm complete:	2.5- 2.7Kg/m^2
Structure 2 mm complete:	2.7-3.2 Kg/m^2
Structure 3 mm complete:	4.5- 5.0 Kg/m^2
Drying time:	24 hours
Resistance to humidity:	W2

Consumption: 2.5- 5 Kg/m^2 depends on grain size

Packaging: 25 Kg plastic buckets

QUARTZ DECOR

Decorative coating that serves for the treatment of facades and indoor surfaces.

Product Classification :
Quartz Decor is classified according to EN 15824 standard.

Characteristics
• For indoor and outdoor use.
• High resistance to weather conditions.
• Good workability.
• Forms a stable and long-lasting structure.

Recommendations for use
Quartz Decor is suitable to create decorative coatings with excellent waterproof, adhesive and elastic qualities. It is also used to create decorative coatings on surfaces filled with cement mortar or basic thermal insulating mortar, which have been flattened beforehand with MEGAGRUND or one product from TB 800 line of products.

APPLICATION PROCEDURE

Surface preparation:
The support where Quartz Decor will be applied should be beforehand cleaned from dust and petroleum, oils, varnishes and wax residues, and from anti-adhesion materials. The cleaning of oils, varnishes, wax or anti-adhesion materials is done mechanically or manually. Before the application of Quartz Decor, level the support with the dry primer MEGAGRUND. Supports should be flat and mechanically stable, in function of intended use.

Application
Quartz Decor is applied through a straight, metallic screed directly on the surface which has been pre-treated with MEGAGRUND primer. After putting the product on the support, compress it with a plastic screed, to create the structures you wish.

Storage
24 months after manufacture date, if stored in original and unopened packaging and protected from direct exposure to sun and frost.

Consumption: 2.5-5 Kg / m²

Packaging: 25 Kg Plastic buckets

Technical data	
Form:	Paste
Colour:	Various colors
Density:	1750 Kg/m^3
Application temperature:	+5^{0}C do +35^{0}C

DEUTSCH COLOR

SPATORELLA ROUGE

Smoothing plaster for smooth finishes.

Characteristics
- Smoothing plaster, consisting of white cement, white marble powder, resins and special additives.
- Characterized by maneuverability and easy opening without vertical sliding, thus facilitating application to vertical surfaces.
- Used for indoor environments.
- Allows a thickness of 1-3 mm for each layer.
- Easily skimmed off with sand paper to achieve a thin and solid layer.
- Complies with EN 998-1 standards

Application domain
Material for smoothing walls and ceilings filled with a traditional mortar or a mortar prepared on the basis of lime-cement. Concrete surfaces. Walls and ceilings of gypsum board.

Important data
- Do not add other components such as cement, lime to the given product.
- It should not be applied to previously painted surfaces.
- It should not be applied on surfaces with plastic coatings.
- It should not be applied at a thickness greater than 5 mm.
- Do not add water after the composition is prepared.
- It must be applied at temperatures from + 5°C to + 35°C.

Improvement with latex
To improve adhesion, water impermeability, plasticity, elasticity, mechanical resistance etc. SPATORELLA can be reinforced with the LATEX additive. The mixing ratio is 1:5 with water.

- Mixture preparation
Mix 15 kg of SPATORELLA with 4.5-5 liters of water using with an electric mixer, small number of rotations until a homogeneous mass is formed. It is recommended that the mixture be left to stand for about 5 minutes and mixed again before use.

- Mixture preparation
Mix 15 kg of SPATORELLA with 4.5-5 liters of water using with an electric mixer, with slow rotations until a homogeneous mass is formed. It is recommended that the mixture be left to stand for about 5 minutes and mixed again before use.

- How to apply the product
Spread the product over the surface with a smooth spatula to ensure full distribution and coverage of the surface. The product is applied in one to two coats for a thickness of up to 3 mm.

Technical data	
Form	Powdre
Color	Red
Shelf-life-Shelf-life - storage	12 months in the original packaging in a dry place
Combustibility	Incombustible
Mix ratio	7.5 - 8.0 Liters of water for 25 kg of SPATORELLA
Working time:	2-3 hours
Application temperature	from + 5 ° C to + 35 ° C
pH of the mixture	12
Thickness per layer	2 mm
Standby for the application of second layer:	30-40 min
Standby for the rubbing:	15-20 min
Standby for surface coating:	3-4 weeks

Cleaning
The cleaning of work tools and hands should be carried out when the product is completely dry.

Packaging
Packing in bags of 25Kg.

SPATORELLA BLEU

Smoothing plaster for smooth finishes.

Characteristics
- Smoothing plaster, consisting of white cement, white marble powder, resins and special additives.
- Characterized by maneuverability and easy opening without vertical sliding, thus facilitating application to vertical surfaces.
- Used for indoor environments.
- Allows a thickness of 1-3 mm for each layer.
- Easily skimmed off with sandpaper to achieve a thin and solid layer.
- Complies with EN 998-1 standards

Application domain
Material for smoothing walls and ceilings filled with a traditional mortar or a mortar prepared on the basis of lime-cement. Concrete surfaces. Walls and ceilings of gypsum board.

Important data
- Do not add other components such as cement, lime to the given product.
- It should not be applied to previously painted surfaces.
- It should not be applied on surfaces with plastic coatings.
- It should not be applied at a thickness greater than 5 mm.
- Do not add water after the composition is prepared.
- It must be applied at temperatures from + 5°C to + 35°C.

Reinforcement with latex
To improve adhesion, water impermeability, plasticity, elasticity, mechanical resistance etc. SPATORELLA can be reinforced with the LATEX additive. The mixing ratio is 1:5 with water.

- Mixture preparation
Mix 15 kg of SPATORELLA with 4.5-5 liters of water using with an electric mixer, with slow rotations until a homogeneous mass is formed. It is recommended that the mixture be left to stand for about 5 minutes and mixed again before use.

- Preparation of the support
Before applying the product, the support must be prepared, leveling it if there is an imbalance of the stands of more than 3 mm. The substrate must be level, stable, clean, free from the presence of paints, varnishes, greases, etc. It must be sprayed before applying the product.

- How to apply the product
Apply the product over the surface with a smooth spatula to ensure full distribution and coverage of the surface. The product is applied in one to two coats for a thickness of up to 3 mm.

Technical data

Form	Powdre
Color	Blue
Shelf-life-Shelf-life - storage	12 months in the original packaging in a dry place
Combustibility	Incombustible
Mix ratio	7.5 - 8.0 Liters of water for 1 bag of NATURAL FIN
Working time:	2-3 hours
Application temperature	from + 5°C to + 35°C
pH of the mixture	12
Thickness per layer	2 mm
Standby for the application of second layer:	30-40 min
Standby for the rubbing:	15-20 min
Standby for surface coating:	3-4 weeks

Cleaning
The cleaning of work tools and hands should be carried out when the product is completely dry.

Packaging
Packing in bags of 25Kg.

DEUTSCH COLOR

TECHNOFLATE

Cement-based putty composed of fillers with selected particle size and special additives for interior and exterior

Characteristics
- Does not create cracks
- Strong adhesion
- White color
- Smooth finish
- Easy application and sanding
- No shrinkage even in thick layers

Application domain
It is used for smoothing walls in all interior spaces of dwellings. Gives a smooth, flat finish ready for painting. Also used indoors to coat ceilings and concrete surfaces, and outdoors to coat facades.

Application instructions
- Surface preparation
Surfaces must be completely dry, clean and free of dust and elements that may prevent adhesion of the product.

- Product preparation
Fill a bucket with the required amount of water, then add the TECHNOFLATE product while mixing with an electric mixer until a homogeneous mass is obtained without lumps which may make application difficult.

- Product application
The TECHNOFLATE product is applied with a metal spatula. Apply the product on the surface to be coated and bring it to the required thickness. The coating thickness should not exceed 3 mm. The product should be applied in two coats. Clean spatula and other work tools with water immediately after application.

Shelf life - storage
12 months if stored in a dry place, away from heat sources, at a temperature between + 5°C and +30 ° C. Protect from frost.

Notes
- On fresh concrete surfaces, the product must be applied at least 30-40 days later.
- It is recommended to avoid applying the product at temperatures below 5°C.

Packaging
Packed in bags of 25 Kg.

Technical data

Based	Cement
Density EN ISO 2811-1	1,05 ± 0,02 gr/ml
Dry residue EN ISO 3251	100%
Dilution ratio	32 ± 1%
Color	white
Tensile strength in concrete	≥ 0,8 N/mm²
Consumption:	1kg/m²
Drying time between two coats	2 – 4 hours
Drying time before sanding	24 hours
Reaction time per la tintura	72 hours
Compressive strength	≥ 5 N/mm² (CS III)

VOX POWDER

Polymer-modified cement-based smoothing and leveling decorative plaster for application on various substrates such as old ceramic tiles, existing paint, etc.

Application domain
VOX POWDER is used as a decorative coating in spaces such as stairs, floors, walls and special constructions such as built-in beds, toilets (showers, sinks, etc.). It can be applied both indoors and outdoors, at home, in hotels and anywhere special aesthetics are required.

Application instructions

- Surface preparation
The surface must be clean, free of dust, oil or material residues. Before application to absorbent substrates, such as masonry, concrete or plaster, treat beforehand with Acno Technofix Liquid or FM Primer acrylic primer in one or two coats, depending on the absorption capacity of the surface. For the cardboard surface, treat first with Technofix Liquid primer.

- Product preparation
The dry mixture is stored in plastic buckets ready to be mixed with water. The dose of water per 25 kg is approximately 6.5 to 7 liters. Mixing is done with an electric mixer at low speed until a homogeneous thixotropic paste is obtained.

- Product application
The application of the mixture is done with a metal float directly on the existing support. After the first coat has dried, apply the second coat in the same procedure. Depending on the desired final texture, the surface can be smoothed with a floating sponge while still fresh or can be sanded after complete drying.

Shelf life - storage
12 months from the date of manufacture, in its original unopened packaging, in a place protected from moisture and frost.

Packaging
Packed in 20 Kg buckets.

Technical data	
Form	Powder
Color	White
Workability	2 hours at + 20ºC
Water request	6.25 to 6.50 l / 25 kg bags
Dry mortar volume	1.30 ± 0.05 kg / l
High density of fresh mortar	1.80 ± 0.10 kg / l
Repressive force	35 N / mm^2
Bending force	8.5 N / mm^2
The content of chlorine ions	0.00%
Climbing strength	1.8 N / mm^2
The adhesive strength after Freeze cycles	1.6 N / mm^2
Elasticity module	20 GPa
Carbonation resistance	Past
Abrasive resistance	AR 2

DEUTSCH COLOR

VOX LIQUID

Acrylic based putty made up for interior and exterior use

Application domain
It is used for wall polishing on the interior and exterior spaces where we want to create a smooth surface of inner walls. Used for rendering the interior of cealings concrete surfaces of rooms, kitchen, toilette surfaces, etc. It is suitable for smoothing on smooth surfaces like tiles.

Application instructions

- Surface preparation
The surfaces should be completely dry, clean and free from dust and elements that hinder the adhesion of the product.

- Product preparation
The product is ready for application. It is recommended to homogenize the product, mixing it with an electric mixer before use.

- Product application
Application of the product VOX LIQUID is done with a metal notched trowel. Spread the product on the surface to be rendered and bring it to the required thickness. The application thickness of a coating shall not exceed 3 mm. The product must be applied in two coatings. Clean the spatula and other working tools with water immediately after application.

Shelf life - storage
12 months if stored in a dry place, away from heat sources, at a temperature between +5°C and +30°C. Protect it from frost.

Packaging
5 Kg / 20 Kg plastic buckets

Technical data	
Bases:	Acrylic Copolymer
Color	White
Density EN ISO 2811- 1:	1,75±0,02 gr/ml
Dry residue EN ISO 3251:	70%
Mixing ratio:	Redy for use
Tensile adhesion strength in concrete:	≥ 1 N/mm^2
Consumption:	1Kg/m^2
Drying time between two coatings:	2 – 4 hours
Drying time for grinding:	24 hours
Drying time for painting:	72 hours
Compressive strength:	≥ 200 N

GLATTE SPACHTEL

Grout for finishings, with excellent grinding properties and easy workability.

Characteristics
- High spreading rate
- Very good workability
- Very easy to grind

Recommendations for use
It is used for wall polishing on all the interior dwelling spaces where we want to create a smooth and fair of painting inner wall surfaces. It is for rendering the interior of ceilings, concrete surfaces in the interiors, rooms, kitchen, toilette surfaces, etc.

APPLICATION PROCEDURE

Surface preparation
The surfaces should be completely dry, clean and free from dust and elements that hinder the adhesion of the product.

Product preparation
Fill a container with the required amount of water and then add the GLATTE SPACHTEL product and mix with an electric mixer. Mix the product until a homogeneous mass without grains that makes application difficult is obtained.

Application
Application of the product Glatte Spachtel is done with a metal notched trowel. Spread the product on the surface to be rendered and bring it to the required thickness. The application thickness of a coating shall not exceed 3 mm. The product must be applied in two coatings. Clean the spatula and other working tools with water immediately after application.

Storage
12 months if stored in a dry place, away from heat sources, at a temperature between +5°C and +30°C. Protect it from frost.

Technical data	
Basis:	Cement
Density EN ISO 2811- 1:	1,45±0,02 gr/ml
Dry residue EN ISO 3251:	100%
Mixing ratio:	32±1%
Colour:	White
Tensile adhesion strength in concrete:	≥ 0,3 N/mm^2
Consumption:	1Kg/m^2
Drying time between two coatings:	2 – 4 hours
Drying time for grinding:	24 hours
Drying time for painting:	72 hours
Compressive strength:	≥ 3 N/mm^2 (CS III)

Notes
- In fresh concrete surfaces the product should be applied at least after 30-40 days.
- It is recommended to avoid the application of the product at temperatures below 5ºC .

Packaging: 25 Kg paper bags

DEUTSCH COLOR

SPACHTEL FINISH ACRYL

Cement based grout made up of filler with selected granulometry and special additives for indoor use.

Characteristics
- Does not create cracks
- Strong bonding
- White colour
- Final smooth finish
- Easy application and grinding
- Does not shrink even with thick film

Recommendations for use
It is used for wall polishing on all the interior dwelling spaces where we want to create a smooth and fair surface for painting inner wall surfaces. It is for rendering the interior of the ceiling, concrete surfaces in the interior, room, kitchen, toilette surfaces, etc.

APPLICATION PROCEDURE

Surface preparation
The surfaces should be completely dry, clean and free from dust and elements that hinder the adhesion of the product.

Product preparation
Fill a container with the required amount of water, then add the Spachtel Finish product and mix with an electric mixer. Mix the product until a homogeneous mass without grains that make application difficult is obtained.

Application
Application of the product Spachtel Finish is done with a metal notched trowel. Spread the product on the surface to be rendered and bring it to the required thickness. The application thickness of a coating shall not exceed 3 mm. The product must be applied in two coatings. Clean the spatula and other working tools with water immediately after application.

Storage
12 months if stored in a dry place, away from heat sources, at a temperature between +5°C and +30°C. Protect it from frost.

Technical data	
Basis:	Cement
Density EN ISO 2811- 1:	1,45±0,02 gr/ml
Dry residue EN ISO 3251:	100%
Mixing ratio:	32±1%
Colour:	White
Tensile adhesion strength in concrete:	≥ 0,3 N/mm^2
Consumption:	1Kg/m^2
Drying time between two coatings:	2 – 4 hours
Drying time for grinding:	24 hours
Drying time for painting:	72 hours
Compressive strength:	≥ 3 N/mm^2 (CS III)

Notes
- In fresh concrete surfaces the product should be applied at least after 30-40 days.
- It is recommended to avoid the application of the product at temperatures below 5ºC.

Packaging: 15 Kg paper bags

SPACHTEL MASSEN

Cement based grout made up of filler with selected granulometry and special additives for indoor and outdoor use.

Characteristics
- Does not create cracks
- Strong bonding
- White colour
- Final smooth finish
- Easy application and grinding
- Does not shrink even with thick film

Recommendations for use
It is used for wall polishing on all the interior spaces where we want to create a smooth and fair surface for painting inner walls, used for rendering the interior of ceilings, it is used for rendering of concrete surfaces in interiors. It is used for rendering the surfaces of exterior facades.

APPLICATION PROCEDURE

Surface preparation
The surfaces should be completely dry, clean and free from dust and elements that hinder the adhesion of the product.

Product preparation
Fill a container with the required amount of water and then add the Spachtel Massen product and mix with an electric mixer. Mix the product until a homogeneous mass without grains that make application difficult is obtained.

Application
Application of the product Spachtel Massen is done with a metal notched trowel. Spread the product on the surface to be rendered and bring it to the required thickness. The application thickness of a coating shall not exceed 3 mm. The product must be applied in two coatings. Clean the spatula and other working tools with water immediately after application.

Storage
12 months if stored in a dry place, away from heat sources, at a temperature between +5°C and +30°C. Protect it from frost.

Technical data

Basis:	Cement
Density EN ISO 2811- 1:	1,45±0,02 gr/ml
Dry residue EN ISO 3251:	100%
Mixing ratio:	32±1%
Colour:	White
Tensile adhesion strength in concrete:	≥ 0,8 N/mm^2
Consumption:	1Kg/m^2
Drying time between two coatings:	2 – 4 hours
Drying time for grinding:	24 hours
Drying time for painting:	72 hours
Compressive strength:	≥ 5 N/mm^2 (CS III)

Notes
- In fresh concrete surfaces the product should be applied at least after 30-40 days.
- It is recommended to avoid application of the product at temperatures below 5ºC .

Packaging: 10 Kg / 20 Kg paper bags

DEUTSCH COLOR

GIPS FUGEN

Stucco for filling joints between gypsum-board panels.

Characteristics
- Gypsum-based stucco, composed of hydrated lime, marble powder of selected granulometry and special additives.
- To realize finishes in gypsum-based supports and in gypsum panels.
- It is characterized by excellent workability, effortless opening and non-slip, which facilitates the application in vertical surfaces.
- For indoor environments.
- Easily rubbed with sandpaper.
- In conformity with EN 132791.

Recommendations for use
- It is used together with the covering tapes to stucco joints between gypsum-board tiles, to stucco joints and cracks in finished concrete surfaces.
- To stucco concrete surfaces with or without porosity.

Storage
12 months if stored in a dry place, away from heat sources, at a temperature between + 5°C and + 30°C. Protect from frost.

Packaging: 10 Kg plastic bags

Technical data

Form:	Powdre
Color	White
Shelf-life-Shelf-life - storage	12 months in the original packaging in a dry place
Combustibility	incombustible
Mixing ratio	7.5 - 8 liters of water for 15 kg of GIPS FUGEN
Pot life	1,5 – 2 hours
pH of the mixture	12
Application temperature	+5°C à +35°C
Maximum thickness per layer	1 mm
Time before sanding	24 hours
Delay before painting	3 – 4 weeks

NATURAL FIN

Powder material, with cement, hydrated lime, carbonate sand with selected granulometry, synthetic resins and special additives.

Characteristics
- It is characterized by an excellent opening and workability, which facilitates application in indoor and outdoor surfaces that are filled with traditional mortar and pre-prepared mortar as well.
- It is applicable up to a thickness of 3 mm.

Recommendations for use
It is suitable for finishes in surfaces filled with traditional or pre-prepared cement-based or lime-based mortar. It can be covered with paint or other coatings of mineral and synthetic nature.

Important data
- Do not add other components, such as cement, lime, etc, in the given product.
- Do not apply it on pre-coated surfaces.
- Do not apply it on plastic surfaces or coatings.
- Do not apply it on surfaces with unevenness greater than 3 mm.
- Do not add water after the mixture has been prepared.
- It should be applied in temperatures from +5°C up to +35°C.
- Do not apply it in areas where ceramic coatings are present.
- Do not apply it in gypsum-based surfaces.
- Do not apply it in easily breakable or destroyable surfaces.

Surface preparation
The surface where the product will be applied should be leveled and stable. Surfaces with a thickness over 3 mm should be leveled before the application of product.

Modo di Product preparation
Pour 7.5 - 8 liters of water and 25 Kg NATURAL FIN in a container. Mix them with an electric low- rotation mixer until the mixture becomes homogeneous. In order to stimulate the mixing features and have a better result, it is recommended to let mixture settle for about 10 minutes and stirred again before use.

Application of product
The material should be opened through a metallic screed, thus ensuring a uniform layer in the entire surface. The second layer of the material should be applied 30 minutes after the application of the first layer. After reaching the appropriate drying, for about 15 minutes in features temperature 23°C, the surface should be rubbed with trowel. Environment temperature significantly affects the working time of the product. The lower the temperature, the longer is the working time.

Technical data	
Form:	Powdre
Colors	Grey and White
Shelf-life-Shelf-life - storage	12 months in the original packaging in a dry place
Combustibility	incombustible
Mix ratio	7.5 - 8.0 Liters of water for 1 bag of NATURAL FIN
Working time:	2-3 hours
Application temperature	from + 5°C to + 35°C
pH of the mixture	12
Thickness per layer	2 mm
Standby for the application of second layer:	30-40 min
Standby for the rubbing:	15-20 min
Standby for surface coating:	3-4 weeks

Storage
12 months if stored in a dry place, away from heat sources, at a temperature between + 5°C and + 30°C. Protect from frost.

Notes
- In fresh concrete surfaces the product must be applied at least after 30-40 days
- It is recommended to avoid the application of the product at temperatures below 5ºC.

Packaging: 25 Kg paper bags

DEUTSCH COLOR

NATURAL KALK

It is a powder-shaped material, produced according to HTT (Horman Technology Transparent) technology

It is a powder material, produced according to HTT technology (Horman Transpirance Tecnology) which prevents mold creation and allows the airing of cement-based, hydrated lime, marble carbonate sand and marble of selected granulometry, synthetic resins and special additives walls.

Characteristics
- It is characterized by an excellent opening and workability, and high outstanding coverage (10 - 12 m² / sack 25 Kg)
- It facilitates application in indoor and outdoor surfaces which are filled with traditional mortar and pre-prepared mortar as well.
- It is applicable in a thickness up to 3 mm.

Recommendations for use
It is suitable for finishes in surfaces filled with traditional or pre-prepared cement-based or lime-based mortar. It can be covered with paint or other coatings of mineral and synthetic nature.

Important data
- Do not add other components, such as cement, lime, etc, in the given product.
- Do not apply it on pre-coated surfaces.
- Do not apply it on plastic surfaces or coatings.
- Do not apply it on surfaces thicker than 3 mm.
- Do not add water after the mixture has been prepared.
- It should be applied in temperatures from +5°C up to +35°C.
- Do not apply it in areas with ceramic coatings.
- Do not apply it in gypsum-based surfaces.
- Do not apply it in easily breakable or destroyable surfaces.

Surface preparation
The surface where NATURAL KALK will be applied should be leveled and stable. Surfaces with greater unevenness than 3 mm should be leveled before the application of product.

Mixture preparation
Pour 7.5 - 8 liters of water and 25 Kg NATURAL KALK in a container. Mix them with an electric low- rotation mixer until the mixture becomes homogeneous. To stimulate the mixing features and to have a better result, it is recommended to let the mixture settle for about 10 minutes and stir it again before use.

Application
The material should be opened through a metallic screed, thus ensuring a uniform layer in the entire surface. The second layer of the material should be applied 30 minutes after the application of the first layer. After reaching the appropriate drying, for about 15 minutes in a temperature 23°C, the surface should be rubbed with trowel. Environment temperature significantly affects the working time of the product. The lower the temperature, the longer is the working time.

Technical data	
Form:	Powder
Color:	Grey/White
Shelf-life-Shelf-life - storage	12 months in the original packaging in a dry place
Combustibility	Incombustible
Mix ratio	6.5 - 7.0 Liters of water for 1 bag of 25 Kg
Working time:	3-4 hours
Application temperature	from + 5°C to + 35°C
pH of the mixture	12
Thickness per layer	2 mm
Standby for the application of second layer:	30-40 min
Standby for the rubbing:	15-20 min
Standby for surface coating:	3-4 weeks

Storage
12 months if stored in a dry place, away from heat sources, at one temperature between + 5 ° C and + 30 ° C. Protect from frost.

Cleaning manner
Working tools and hands should be cleaned up while the product is still moist.

Packaging: 25 Kg paper bags

VOX 600 ROUGE

Acrylic-based sealant composed of fillers with select-ed particle size and special additives for the interior

Characteristics
- Does not create cracks
- Without withdrawal
- Strong adhesion
- White color
- Smooth finish
- Easy application and sanding

Application domain
It has excellent working, leveling and filling properties. It dries quickly without cracking and is easy to sand to give a smooth, durable surface. It is suitable for filling surfaces such as plaster, drywall, concrete and wood.

Application instructions

- Surface preparation
Surfaces must be clean, dry and free of any defective and poorly adherent material, dirt, grease and salts. VOX 600 Red is applied with a flat trowel (spatula). It can be recoated with VOX 707 as a second coat, after about 6 hours, after complete drying.

- Product preparation
The product is ready to use, it is recommended to homogenize the product by mixing it with an electric mixer.

- Application
The application of the product Vox 600 Red is made with a metal spatula. Apply the product on the surface to be coated and bring it to the required thickness. The coating thickness should not exceed 3mm.

Shelf life - storage
12 months if stored in a dry place, away from heat sources, at a temperature between + 5°C and + 30°C. Protect from freezing.

Notes
- On fresh concrete surfaces, the product should be applied at least 30 to 40 days later.
- It is recommended to avoid applying the product at temperatures below 5°C.

Packaging
Packing in buckets of 25 Kg

Technical data	
Bases	Acrylic copolymer
Density EN ISO 2811-1	1,75 ± 0,02 gr/ml
Dry residue EN ISO 3251	70%
Dilution ratio	Ready to use
Color	White
Tensile strength in concrete	≥ 0,3 N/mm²
Consumption:	1kg/m²
Drying time between two coats	2 - 4 hours
Drying time before sanding	24 hours
Reaction time per la tintura	72 hours
Compressive strength	≥ 200 N

DEUTSCH COLOR

VOX 707

Acrylic based grout made up of filler with selected granulometry and special additives for interior use.

Characteristics
- Does not create cracks
- Does not shrink
- Strong bonding
- White colour
- Final smooth finish
- Easy application and grinding

Recommendations for use
It is used for wall polishing on all the interior spaces where we want to create a smooth surface of inner walls. Used for rendering the interior of cealings concrete surfaces of rooms, kitchen, toilette surfaces, etc.

APPLICATION PROCEDURE

Surface preparation
The surfaces should be completely dry, clean and free from dust and elements that hinder the adhesion of the product.

Product preparation
The product is ready for application. It is recommended to homogenize the product, mixing it with an electric mixer before use.

Application
Application of the product Vox 707 is done with a metal notched trowel. Spread the product on the surface to be rendered and bring it to the required thickness. The application thickness of a coating shall not exceed 3 mm. The product must be applied in two coatings. Clean the spatula and other working tools with water immediately after application.

Storage
12 months if stored in a dry place, away from heat sources, at a temperature between +5°C and +30°C. Protect it from frost.

Notes
- In fresh concrete surfaces the product should be applied at least after 30-40 days.
- It is recommended to avoid the application of the product at temperatures below 5ºC.

Technical data	
Basis:	Acrylic copolymer
Density EN ISO 2811- 1:	1,75±0,02 gr/ml
Dry residue EN ISO 3251:	70%
Mixing ratio:	Redy for use
Colour:	White
Tensile adhesion strength in concrete:	≥ 0,3 N/mm²
Consumption:	1Kg/m²
Drying time between two coatings:	2 – 4 hours
Drying time for grinding:	24 hours
Drying time for painting:	72 hours
Compressive strength:	≥ 200 N

Consumption: 2.5- 5 Kg/m² depends on grain size

Packaging: 15 Kg / 25 Kg plastic buckets

HANSA SPACHTEL

Water based, acrylicic-silicon grout, ready for use, suitable for interior surface rendering.

Characteristics
- Does not create cracks
- Does not shrink
- Strong bonding
- White colour
- Final smooth finish
- Easy application and grinding

Recommendations for use
It is used for wall polishing on all the interior spaces where we want to create a smooth surface of inner walls, rooms, kitchen, toilette surfaces, etc.

APPLICATION PROCEDURE

Surface preparation
The surfaces should be completely dry, clean and free from dust or elements that hinder the adhesion of the product.

Product preparation
The product is ready for application. It is recommended to homogenize the product, mixing it with an electric mixer before use.

Application
Application of the product Hansa Spachtel is done with a metal notched trowel. Spread the product on the surface to be treated and bring it to the required thickness. The application thickness of a coating shall not exceed 3 mm. The product must be applied in two coatings. Clean the spatula and other working tools with water immediately after application.

Storage
24 months if stored in a dry place, away from heat sources, at a temperature between +5°C and +30°C. Protect it from frost.

Notes
- In fresh concrete surfaces the product should be applied at least after 30-40 days.
- It is recommended to avoid the application of the product at temperatures below 5ºC.

Consumption: 2.5- 5 Kg/m² depends on grain size

Packaging: 2,2 Kg plastic buckets

Technical data	
Basis:	Acrylic copolymer
Density EN ISO 2811- 1:	1,75±0,02 gr/ml
Dry residue EN ISO 3251:	70%
Mixing ratio:	Ready for use
Colour:	White
Tensile adhesion strength in concrete:	≥ 0,8 N/mm²
Consumption:	1Kg/m²
Drying time between two coatings:	2 – 4 hours
Drying time for grinding:	24 hours
Drying time for painting:	72 hours
Compressive strength:	≥ 400 N

DEUTSCH COLOR

ISO SPACHTEL ELASTISCH

Acrylic based grout made up of filler with selected granulometry and special additives for cracks repair on walls and ceilings. It is used for repair on indoor and outdoor spaces.

Characteristics
- Does not create cracks
- Strong bonding
- Good flexibility
- White colour
- Easy application and grinding
- Very good covering
- Does not shrink even with thick film

Recommendations for use
It is used for wall polishing on all the interior dwelling spaces where we want to create a smooth and fair surface, for cracks and damaged surface repair in indoor spaces such as rooms, kitchen, toilette surfaces, etc. It used for cracks and damaged surface repair in the outdoor surfaces, such as facades, etc.

APPLICATION PROCEDURE

Surface preparation
The surfaces should be completely dry, clean and free from dust and elements that hinder the adhesion of the product. Firstly open the surface, in order to achieve a complete filling.

Product preparation
The product is ready for application. It is recommended to homogenize the product, mixing it with an electric mixer before use.

Application
Application of product Spachtel Elastich is done with a metal notched trowel. Spread the product on the surface to be rendered and bring it to the required thickness. The application thickness of a coating shall not exceed 3 mm. Apply the product in many coatings to achieve the desired surface. Clean the spatula and other working tools with water immediately after application.

Storage
24 months if stored in a dry place, away from heat sources, at a temperature between +5°C and +30°C. Protect it from frost.

Technical data	
Basis:	Acrylic copolymer
Density EN ISO 2811- 1:	1,75±0,02 gr/ml
Dry residue EN ISO 3251:	70%
Mixing ratio:	Ready for use
Colour:	White
Tensile adhesion strength in concrete:	≥ 0,8 N/mm²
Consumption:	1Kg/m²
Drying time between two coatings:	2 – 4 hours
Drying time for grinding:	24 hours
Drying time for painting:	72 hours
Compressive strength:	≥ 800 N

Notes
- In fresh concrete surfaces the product should be applied at least after 30-40 days.
- It is recommended to avoid application of product at temperatures below 5ºC.

Consumption: 2.5- 5 Kg/m² depends on grain size

Packaging: 5 Kg / 15 Kg plastic buckets

SPACHTEL ELASTISCH

Acrylic based grout made up of filler with selected granulometry and special additives for cracks repair on walls and ceilings. It is used for repair on indoor and outdoor spaces.

Characteristics
- Does not create cracks
- Strong bonding
- Good flexibility
- White colour
- Easy application and grinding
- Very good covering
- Does not shrink even with thick film

Recommendations for use
It is used for wall polishing on all the interior dwelling spaces where we want to create a smooth and fair surface, for cracks and damaged surface repair in indoor spaces such as rooms, kitchen, toilette surfaces, etc. It used for cracks and damaged surface repair in the outdoor surfaces, such as facades, etc.

APPLICATION PROCEDURE

Surface preparation
The surfaces should be completely dry, clean and free from dust and elements that hinder the adhesion of the product. Firstly open the surface, in order to achieve a complete filling.

Product preparation
The product is ready for application. It is recommended to homogenize the product, mixing it with an electric mixer before use.

Application
Application of the product Spachtel Elastich is done with a metal notched trowel. Spread the product on the surface to be treated and bring it to the required thickness. The application thickness of a coating shall not exceed 3 mm. Apply the product in many coatings to achieve the desired surface. Clean the spatula and other working tools with water immediately after application.

Storage
24 months if stored in a dry place, away from heat sources, at a temperature between +5°C and +30°C. Protect it from frost.

Technical data	
Basis:	Acrylic copolymer
Density EN ISO 2811- 1:	1,75±0,02 gr/ml
Dry residue EN ISO 3251:	70%
Mixing ratio:	Ready for use
Colour:	White
Tensile adhesion strength in concrete:	≥ 0,8 N/mm²
Consumption:	1Kg/m²
Drying time between two coatings:	2 – 4 hours
Drying time for grinding:	24 hours
Drying time for painting:	72 hours
Compressive strength:	≥ 800 N

Notes
- In fresh concrete surfaces the product should be applied at least after 30-40 days.
- It is recommended to avoid the application of the product at temperatures below 5ºC.

Consumption: 2.5- 5 Kg/m² depends on grain size

Packaging: 5 Kg / 15 Kg plastic buckets

DEUTSCH COLOR

THERMO SPACHTEL

Ready-to-use water based acrylic putty with thermal effect, suitable for stuccoing (skim coat puttying) in interior areas.

Characteristics
- Easy application and sanding
- Up to 35% of thermal effect
- White color
- Smooth final surface
- High reflectance of the heat
- Good breathability
- Contains microsphere and aero gel
- Strong adhesion
- Good mechanical properties
- Ammonia free

Recommendations for use
Thermo Spachtel is ideal stuccoing surfaces of plaster, concrete, masonry, wood, gypsum board and cement board.

APPLICATION PROCEDURE

Application method: Spatula
Diluent: Ready for use
Surfaces must be clean, dry and free from all defective and poorly adhering material, dust, dirt, oils and salts. Mix well before application. The product applied by trowel using a dragging technique in two coats. The second coat follows after the first has dried. After stuccoing, the final surface is smoothed out by sand paper in order to be primed and then painted. Tools are cleaned immediately after the application with water.

Storage
24 months, stored in dry interior places.

Notes
- On fresh concrete surfaces it is recommended to apply the product at least after 30-40 days.
- It is recommended to avoid the application of the product at temperatures below 5ºC.

Consumption: 2.5- 5 Kg/m² depends on grain size

Packaging: 10 Kg plastic buckets

Technical data	
Bases	Copolymère acrylique
Density	0,75 ± 0,02 gr/ml
Dry to the touch	60%
Form	Ready to use
Color	White
Adhesion strength	0,8 N/mm²
Consommation	0.75kg/m²
Drying time between two coats	2 - 4 hours
Time before sanding	24 hours
Delay before next coat	72 hours
Flexural strength	600 N

ACRYLEX

Granulate, economic acrylic liner for scratched plaster bonding

Characteristics
- Ammonia free
- It is used for indoor and outdoor spaces.
- Does not contain hazardous substances, such as heavy metals, free formaldehydes, aromatic carbohydrates, etc.

Recommendations for use
It can be used in all indoor and outdoor, new and old walls. It is used as bonding liner before the scratching plaster in thermal insulation systems, in plastered wall systems, in old painted plastered wall systems.

APPLICATION PROCEDURE

Surface preparation
The surfaces should be completely dry, clean and free from dust and elements that hinder the adhesion of the product.

Product preparation
Dilute the product Acrylex with 20-40% water, ensuring that it is fully mixed with the liner. Use a low speed electric mixer to make a mixture as uniform and complete as possible.

Application
Application of the product Acrylex is made with a brush or roller. The application cycle includes at least the application of one coating of liner. The time needed between the liner coating and the first coating is 2-4 hours depending on weather conditions, temperature and humidity. When applying the liner, avoid creating a film, which then creates problems connecting the paint to the support. Clean brushes, rollers and other working tools with water before the paint dries.

Storage
36 months if stored in a dry place, away from heat sources, at a temperature between +5°C dhe +30°C. Protect it from frost.

Packaging 15 Kg plastic buckets

Technical data	
Resin:	Acrylic copolymer
Density EN ISO 2811- 1:	1,65±0,02 gr/ml
Dry residue EN ISO 3251:	60%
Dilution degree:	20 – 40%
Viscosity:	125 ± 5 KU
Drying time between two coatings:	4 - 6 hours
VOC in the ready product (European Directive 2004/42/CE) (g/l):	≤ 10
TVOC ambient emissions, Simulation chamber ISO 16000- 9 (mg/m^3):	≤ 0.2

DEUTSCH COLOR

MEGAGRUND

High quality acrylic emulsion based liner and with selected granulometry aggregates.

Characteristics
It creates a coarse surface
- Good substrate bonding
- Promotes bonding with decorative grout
- Prolongs drying time with decorative grout
- Provides colour uniformity in decorative grout
- Different nuances according to DCTS colour system

Recommendations for use
It can be used in all indoor and outdoor, new and old walls. It is used as bonding liner before the scratching plaster in thermal insulation systems, in plastered wall systems, in old painted plastered wall systems.

APPLICATION PROCEDURE

Surface preparation
The surfaces should be completely dry, clean and free from dust and elements that hinder the adhesion of the product.

Product preparation
Dilute the product Megagrund with 10-30% water, ensuring that it is fully mixed with the liner. Use a low speed electric mixer to make a mixture as uniform and complete as possible.

Application
Application of the product Megagrund is made with a brush or roller. The application cycle includes at least the application of one coating of liner. The time needed between the liner coating and the scratched plaster coating is 2-4 hours depending on weather conditions, temperature and humidity. When applying the liner, avoid creating a film, which then creates problems with the bonding of the scratched plaster to the support. Clean brushes, rollers and other working tools with water before the paint dries.

Storage
36 months if stored in a dry place, away from heat sources, at a temperature between +5°C dhe +30°C. Protect it from frost.

Packaging 5 Kg / 20 Kg plastic buckets

Technical data	
Resin:	Acrylic copolymer
Density EN ISO 2811- 1:	1,35±0,02 gr/ml
Dry residue EN ISO 3251:	50%
Dilution degree:	10 – 30%
Viscosity:	115 ± 5 KU
Drying time between two coatings:	4 - 6 hours
VOC in the ready product (European Directive 2004/42/CE) (g/l):	≤ 10
TVOC ambient emissions, Simulation chamber ISO 16000- 9 (mg/m^3):	≤ 0.2

DEUTSCH COLOR

DECOCEM

Micro-cement coating for surface finishing on floors and walls

Characteristics
Microtec aes s a pre-mixed, polymer modified, fiber-reinforced micro-cement coating, without corrosive ingredients, suitable for indoor and outdoor applications, on floors and walls, offering:
• Abrasion resistance.
• Very good bonding to the substrate.
• Water repellency.
• A special aesthetic result.
It is classified as a pcc r3 mortar for concrete repairs, according to en 1504-3.

Recommendations for use
Microtec aes s used both internally and externally, in numerous applications, such as stairs, floors, walls, as well as wherever a special aesthetic result is desired (e.G. Cycladic architecture). Also used in houses, stores, hotels etc. And special constructions, such as built-in beds, built-in sanitary ware (washbasins, showers etc.).

Direction for use
Surface preparation
The substrate should be clean, free of dust, oily or loose materials, etc. Any cavities such as cracks or holes in the substrate should be properly filled. Before applying microtec aes on absorbent substrates, such as masonry, concrete, plaster, gypsum board, they should be first primed with the acrylic primer fm primer in 1-2 layers, depending on the absorptive of the substrate. DECOCEM is applied after 2-3 hours, depending on the weather conditions, provided that the primer has sufficiently dried. Non absorbent substrates, such as old tile layers or mosaic, should be primed with the primer tecnofix liquid. Microtec aes may be applied after 24 hours, as long as the primer has completely dried.

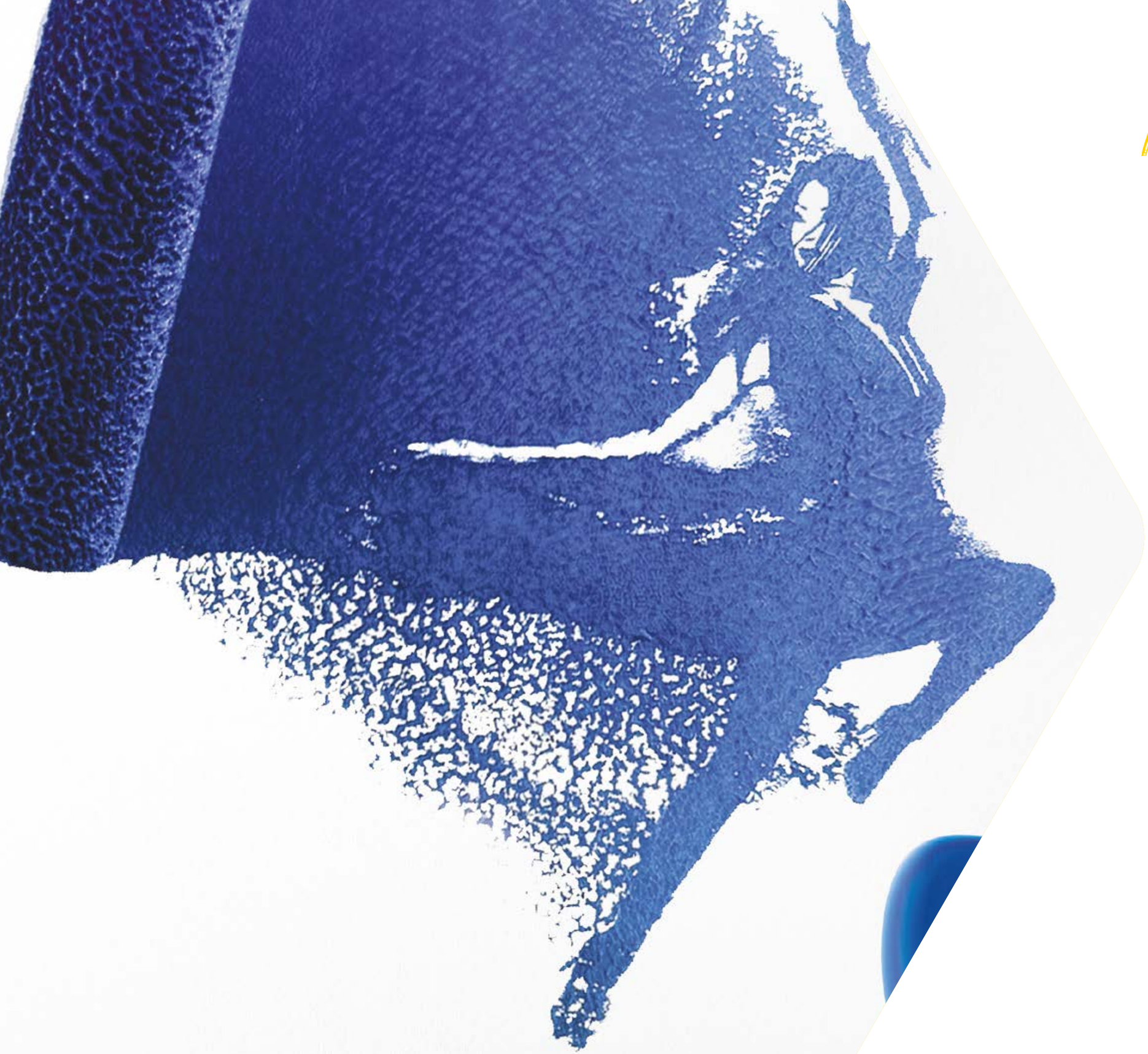
Application
DECOCEM is gradually added to water under continuous stirring, until a mixture of the desired workability is formed. The product is applied with a 10 mm notched trowel. A 145 g/m^2 reinforcing fiberglass mesh is installed on the 'combed' surface of microtec aes, which is then embedded with the smooth side of the trowel, forming a relatively even surface. Twenty-four hours later, the hardened surface of microtec aes is primed with the acrylic primer fm primer. While the primer is still fresh (fresh on fresh), microtec aes is applied in a thin layer (1- 2 mm) in any desired color, in order to form the desired style of the micro-cement coating.

Technical data	
Form:	Cement powder
Color:	White
Pot life:	2 Hours in + 20°c
Water demand:	6,25- 6,50 L / 25 Kg sacks
Bulk density of dry mortar:	1.30 ± 0.05 Kg / l
Bulk density of fresh mortar:	1.80 ± 0.10 Kg / l
Compressive strength:	35 N / mm^2
Flexural strength:	8.5 N / mm^2
Chloride ion content:	0.00%
Adhesion strength:	1.8 N / mm^2
Adhesion strength after freeze-thaw cycles:	1.6 N / mm^2
Elongation module:	20 Gpa
Carbonation resistance	Past
Abrasion resistance:	Ar 2

Storage
12 Months from production date, if stored in original, unopened packaging, in places protected from moisture and frost.

Packaging 25 Kg paper bags

DEUTSCH COLOR



DEUTSCH COLOR

INDOOR PAINTS

HYDRO DC

Hydro mat paint acrylic emulsion-based, very economical and suitable for indoor use.

Characteristics
- Available in W base
- Good covering properties
- Finished surface matt
- Rapid drying time
- Economical solution
- Very good properties in workability and levelling

Recommendations for use
It is used in all interior, new, old and painted walls and ceilings, previously painted with cement base paint, lime, gypsum, and any kind of indoor space, bedrooms, toilets, living rooms, office spaces, services etc.

APPLICATION PROCEDURE

Surface preparation
The surfaces should be completely dry, clean and free from dust and elements that hinder the adhesion of the paint. Repair all cracks and damaged parts using the line products of Deutschcolor, Natur Kalk, Vox 707, Glatte Spachtel, Spachtel Finish, etc. Then, it is recommended to apply the Macht Tiefgrund Wasser liner, diluted with 1:1 water or a water-diluted Macht Haftgrund liner at 1:3 ratio. When applying the liner, avoid creating a film, which then creates problems connecting the paint to the support.

Product preparation
Dilute the product Hydro DC with 15-20% water, making sure it is fully mixed with the paint. Use a low speed electric mixer to make the mixture as uniform and complete as possible.

Application
The product Hydro DC is applied by brush or roller. The application cycle includes at least the application of two coatings of paint. The time needed between the two coatings is 2-4 hours depending on weather conditions, temperature and humidity. Clean brushes, rollers and other working tools with water before the paint dries.

Storage
24 months if stored in a dry place, away from heat sources, at a temperature between +5°C and +30°C. Protect it from frost.

Technical data	
Resin:	Acrylic copolymer
Density EN ISO 2811- 1:	1,65±0,02 gr/ml
Dry residue EN ISO 3251:	70%
Dilution degree:	15 – 20%
Viscosity:	120 ± 5 KU
Drying time between two coatings:	3 - 6 hours
VOC in the ready product (European Directive 2004/42/CE) (g/l):	≤ 10
TVOC ambient emissions, Simulation chamber ISO 16000- 9 (mg/m^3):	≤ 0.2
Covering ability EN ISO 6504- 3:	≥ 98% Class III
Washing resistance ISO 11998:	Class III

Notes
- In fresh concrete surfaces, the product should be applied at least after 30-40 days.
- It is recommended to avoid application of product in temperatures below 5ºC.

Consumption: 9 - 10 m^2/ lt (two coats)

Packaging: 3lt / 9lt / 15lt plastic buckets

DEUTSCH COLOR

HARMONY

Is an acrylic, emulsion-based, hydro mat paint. Suitable for indoor use when strong colours are required.

Characteristics
- Excellent whiteness
- Available in W base
- Finished surface matt
- Excellent coverage
- With very strong colours
- Easy application and good levelling properties

Recommendations for use
It is used in all interior, new, old and painted walls and ceilings, previously painted with cement base paint, lime, gypsum, and any kind of indoor space, bedrooms, toilets, living rooms, office spaces, services etc.

APPLICATION PROCEDURE

Surface preparation
The surfaces should be completely dry, clean and free from dust and elements that hinder the adhesion of the paint. Repair all cracks and damaged parts using the line products of Deutschcolor, Natur Kalk, Vox 707, Glatte Spachtel, Spachtel Finish, etc. Then, it is recommended to apply the Macht Tiefgrund Wasser liner, diluted with 1:1 water or a water-diluted Macht Haftgrund liner at 1:3 ratio. When applying the liner, avoid creating a film, which then creates problems connecting the paint to the support.

Product preparation
Dilute the product Harmony with 15-20% water, making sure it is fully mixed with the paint. Use a low speed electric mixer to make the mixture as uniform and complete as possible.

Application
The product Harmony is applied with a brush or roller. The application cycle includes at least the application of two coatings of paint. The time needed between the two coatings is 2-4 hours depending on weather conditions, temperature and humidity. Clean brushes, rollers and other working tools with water before the paint dries.

Storage
36 months if stored in a dry place, away from heat sources, at a temperature between +5°C and +30°C. Protect it from frost.

Technical data	
Resin:	Acrylic copolymer
Density EN ISO 2811- 1:	1,65±0,02 gr/ml
Dry residue EN ISO 3251:	70%
Dilution degree:	15 – 20%
Viscosity:	120 ± 5 KU
Drying time between two coatings:	3 - 6 hours
VOC in the ready product (European Directive 2004/42/CE) (g/l):	≤ 10
TVOC ambient emissions, Simulation chamber ISO 16000- 9 (mg/m^3):	≤ 0.2
Covering ability EN ISO 6504- 3:	≥ 98% Class II
Washing resistance ISO 11998:	Class III

Notes
- In fresh concrete surfaces the product should be applied at least after 30-40 days.
- It is recommended to avoid the application of product in temperatures below 5ºC.

Consumption: 8 - 9 m^2/ lt (two coats)

Packaging: 3lt / 9lt / 15lt plastic buckets

HYDRO INFINITY

Hydro mat paint for indoor use with good covering and whitening properties.

Characteristics
- Twinkling whiteness
- Finished surface matt
- It is available in 2 basis W and P
- Excellent coverage
- Easy application and good levelling properties

Recommendations for use
Only used indoors such as: bedrooms, toilets, living rooms, environments offices, services, etc.

APPLICATION PROCEDURE

Surface preparation
The surfaces should be completely dry, clean and free from dust and elements that hinder the adhesion of the paint. Repair all cracks and damaged parts using the line products of Deutschcolor, Natur Kalk, Vox 707, Glatte Spachtel, Spachtel Finish, etc. Then, it is recommended to apply the Macht Tiefgrund Wasser liner, diluted with 1:1 water or a water-diluted Macht Haftgrund liner at 1:3 ratio. When applying the liner, avoid creating a film, which then creates problems connecting the paint to the support.

Product preparation
Dilute the product Hydro Infinity with 10-15% water, except for bases D and TR which are recommended to be diluted with not more than 5% water. Use a low speed electric mixer to make the mixture as uniform and complete as possible.

Application
The product Hydro Infinity is applied by brush or roller. The application cycle includes at least the application of two coatings of paint. The time needed between the two coatings is 2-4 hours depending on weather conditions, temperature and humidity. Clean brushes, rollers and other working tools with water before the paint dries.

Storage
36 months if stored in a dry place, away from heat sources, at a temperature between +5°C and +30°C. Protect it from frost.

Technical data	
Resin:	Acrylic copolymer
Density EN ISO 2811- 1:	1,65±0,02 gr/ml
Dry residue EN ISO 3251:	70%
Dilution degree:	10 – 15%
Viscosity:	120 ± 5 KU
Drying time between two coatings:	3 - 6 hours
VOC in the ready product (European Directive 2004/42/CE) (g/l):	≤ 10
TVOC ambient emissions, Simulation chamber ISO 16000- 9 (mg/m³):	≤ 0.2
Covering ability EN ISO 6504- 3:	≥ 98% Class II
Washing resistance ISO 11998:	Class III

- In fresh concrete surfaces the product should be applied at least after 30-40 days.
- It is recommended to avoid the application of product in temperatures below 5ºC.

Consumption: 9 - 10 m²/ lt (two coats)

Packaging: 3lt / 10lt plastic buckets

Notes

DEUTSCH COLOR

HYDRO O_2

Hydro mat paint for indoor use with good covering and whitening properties.

Characteristics
- Twinkling whiteness
- Finished surface matt
- It is available in 2 basis, W and P
- Excellent coverage
- Easy application and good levelling properties

Recommendations for use
Only used indoors such as: bedrooms, toilets, living rooms, environments offices, services, etc.

APPLICATION PROCEDURE

Surface preparation
The surfaces should be completely dry, clean and free from dust and elements that hinder the adhesion of the paint. Repair all cracks and damaged parts using the line products of Deutschcolor, Natur Kalk, Vox 707, Glatte Spachtel, Spachtel Finish, etc. Then, it is recommended to apply the Macht Tiefgrund Wasser liner, diluted with 1:1 water or a water-diluted Macht Haftgrund liner at 1:3 ratio. When applying the liner, avoid creating a film, which then creates problems connecting the paint to the support.

Product preparation
Dilute the product Hydro O2 with 10-15% water, except for bases D and TR which are recommended to be diluted with not more than 5% water. Use a low speed electric mixer to make the mixture as uniform and complete as possible.

Application
The product Hydro O2 is applied by a brush or roller. The application cycle includes at least the application of two coatings of paint. The time needed between the two coatings is 2-4 hours depending on weather conditions, temperature and humidity. Clean brushes, rollers and other working tools with water before the paint dries.

Storage
24 months if stored in a dry place, away from heat sources, at a temperature between +5°C and +30°C. Protect it from frost.

Technical data	
Resin:	Acrylic copolymer
Density EN ISO 2811- 1:	1,65±0,02 gr/ml
Dry residue EN ISO 3251:	70%
Dilution degree:	10 – 15%
Viscosity:	120 ± 5 KU
Drying time between two coatings:	3 - 6 hours
VOC in the ready product (European Directive 2004/42/CE) (g/l):	≤ 10
TVOC ambient emissions, Simulation chamber ISO 16000- 9 (mg/m³):	≤ 0.2
Covering ability EN ISO 6504- 3:	≥ 98% Class II
Washing resistance ISO 11998:	Class III

- It is recommended not to wash the painted surfaces until 30 days after application.
- In fresh concrete surfaces the product should be applied at least after 30-40 days.

Consumption: 9 - 10 m²/ lt (two coats)

Packaging: 3lt / 9lt / 15lt plastic buckets

Notes

PICASSO PROFI - 05

Economical plastic paints for indoor use with very good covering and levelling properties.

Characteristics
- Ammonia free
- Finished surface matt
- It is available in 2 basis W and P
- Strong adhesion and rapid drying
- Very good workability and levelling properties
- Very good covering and whiteness ..
- Supports 1500 washing cycles 30 days after application
- Economical solution for rapid painting and refreshing

Recommendations for use
Used on all walls and ceilings of any kind of interior, bedroom, toilet, living rooms, office spaces, services etc

APPLICATION PROCEDURE

Surface preparation
The surfaces should be completely dry, clean and free from dust and elements that hinder the adhesion of the paint. Repair all cracks and damaged parts using the line products of Deutschcolor, Natur Kalk, Vox 707, Glatte Spachtel, Spachtel Finish, etc. Then, it is recommended to apply the Macht Tiefgrund Wasser liner, diluted with 1:1 water or a water-diluted Macht Haftgrund liner at 1:3 ratio. When applying the liner, avoid creating a film, which then creates problems connecting the paint to the support.

Product preparation
Dilute the product Picasso Profi - 05 with 10-15% water, making sure it is fully mixed with the paint. Use a low speed electric mixer to make a mixture as uniform and complete as possible.

Application
Application of the product Picasso Profi - 05 is made with a brush or roller. The application cycle includes at least the application of two coatings of paint. The time needed between the two coatings is 2-4 hours depending on weather conditions, temperature and humidity. Clean brushes, rollers and other working tools with water before the paint dries.

Storage
36 months if stored in a dry place, away from heat sources, at a temperature between +5°C and +30°C. Protect it from frost.

Technical data	
Resin:	PVA VEOVA Polymer
Density EN ISO 2811- 1:	1,60±0,02 gr/ml
Dry residue EN ISO 3251:	65%
Dilution degree:	10 – 15%
Viscosity:	110 ± 5 KU
Drying time between two coatings:	4 - 6 hours
VOC in the ready product (European Directive 2004/42/CE) (g/l):	≤ 10
TVOC ambient emissions, Simulation chamber ISO 16000- 9 (mg/m³):	≤ 0.2
Covering ability EN ISO 6504- 3:	≥ 95% Class III
Washing resistance ISO 11998:	Class III

- It is recommended to avoid application of product in temperatures below 5ºC.
- In fresh concrete surfaces the product should be applied at least after 30-40 days.

Consumption: 9 - 10 m² / lt (two coats)

Packaging: 1lt / 3lt / 9lt / 15lt plastic buckets

Notes

DEUTSCH COLOR

PICASSO J'ADORE

Emulsion paint of excellent quality for general interior use

Characteristics
- Great hiding power
- Great whiteness
- Smooth matt finish
- Very good working and leveling properties
- Strong adhesion and quick drying
- Ammonia free
- Economic solution for frequent painting and freshening up

Recommendations for use
Interior surfaces of plaster, concrete, brick, wood, stucco, gypsum board, plastic etc.

APPLICATION PROCEDURE

Application method: Brush, roller, airless spray
Diluent: Water
Water demand: 10-15% v/v
Surfaces must be clean, dry and free from all defective and poorly adhering material, dust, dirt, oils and salts.
Hansa Spachtel/ Spachtel Elastisch: For filling, where ever is necessary
Macht Haftgrund: Thinned 100-300%, for sound surfaces without coherence problems
Macht Tiefgrund Wasser: Thinned up to 100%, for very porous surfaces or surfaces already coated with lime or low quality chalky paints
Picasso J'adore: Directly, for the refinishing of sound surfaces
Picasso J'adore is applied in 2 coats.
Tools are cleaned immediately after the application with soap and water.

Storage
36 months, provided the cans remain closed and in normal storing conditions.

Notes
- On fresh concrete surfaces it is recommended to apply the product at least after 30-40 days.
- It is recommended to avoid the application of the product at temperatures below 5ºC.
- Picasso J'adore bases are ONLY used for the production of colored shades via DCTS. They should not be applied without the special colorants.

Consumption: 9 - 10 m² / lt (two coats)

Packaging: 3lt / 9lt / 15lt plastic buckets

Technical data	
Resin:	PVA VEOVA Polymer
Density EN ISO 2811- 1:	1,60±0,02 gr/ml
Dry residue EN ISO 3251:	63%
Dilution degree:	10 – 15%
Viscosity:	120 ± 5 KU
Drying time between two coatings:	4 - 6 hours
VOC in the ready product (European Directive 2004/42/CE) (g/l):	≤ 10
TVOC ambient emissions, Simulation chamber ISO 16000- 9 (mg/m³):	≤ 0.2
Covering ability EN ISO 6504- 3:	≥ 98% Class II
Washing resistance ISO 11998:	Class III

PICASSO PROFI - 15

High quality plastic paint with very good covering and levelling properties and superior covering properties with emulsion-based PVA-VEOVA..

Characteristics
- Finished surface matt
- It is available in 3 basis W, P and D
- Very strong adhesion and rapid drying
- Very good covering and whiteness
- High resistance to frequent washings
- Long duration paints
- Supports 3000 washing cycles 30 days after application.
- Very good workability and levelling properties

Recommendations for use
Used on all walls and ceilings of any kind of interior, bedroom, toilet, living rooms, office spaces, services etc

APPLICATION PROCEDURE

Surface preparation
The surfaces should be completely dry, clean and free from dust and elements that hinder the adhesion of the paint. Repair all cracks and damaged parts using the line products of Deutschcolor, Natur Kalk, Vox 707, Glatte Spachtel, Spachtel Finish, etc. Then, it is recommended to apply the Macht Tiefgrund Wasser liner, diluted with 1:1 water or a water-diluted Macht Haftgrund liner at 1:3 ratio. When applying the liner, avoid creating a film, which then creates problems connecting the paint to the support.

Product preparation
Dilute the product Picasso Profi - 15 with 10 - 15% water, except for base D, which is not, recommended more than 5%, making sure it is fully mixed with the paint. Use a low speed electric mixer to make a mixture as uniform and complete as possible.

Application
Application of the product Picasso Profi - 15 is made with a brush or roller. The application cycle includes at least the application of two coatings of paint. The time needed between the two coatings is 2-4 hours depending on weather conditions, temperature and humidity. Clean brushes, rollers and other working tools with water before the paint dries.

Storage
36 months if stored in a dry place, away from heat sources, at a temperature between +5°C and +30°C. Protect it from frost.

Technical data

Resin:	PVA VEOVA Polymer
Density EN ISO 2811- 1:	1,55±0,02 gr/ml
Dry residue EN ISO 3251:	65%
Dilution degree:	10 – 15%
Viscosity:	110 ± 5 KU
Drying time between two coatings:	4 - 6 hours
VOC in the ready product (European Directive 2004/42/CE) (g/l):	≤ 10
TVOC ambient emissions, Simulation chamber ISO 16000- 9 (mg/m^3):	≤ 0.2
Covering ability EN ISO 6504- 3:	≥ 98% Class II
Washing resistance ISO 11998:	Class III

- It is recommended not to wash the painted surfaces until 30 days after application.
- In fresh concrete surfaces the product should be applied at least after 30-40 days.

Consumption: 9 - 10 m^2 / lt (two coats)

Packaging: 1lt / 3lt / 10lt / 15lt plastic buckets

Notes

DEUTSCH COLOR

PICASSO CLASSIC MOLD PROTECT

Premium quality plastic paint, high resistance to continuous washing and fungus, with emulsion-based PVA-VEOVA.

Characteristics
- Finished surface matt
- Excellent coverage
- It is available in 4 basis W, P, D and TR
- Equipped with antibacterial certificate
- Very good workability and levelling
- Very strong adhesion and rapid drying
- Prevents growth of fungus and micro-organisms
- Supports 3200 washing cycles 30 days after application

Recommendations for use
It is used in all interior, new, old and painted walls and ceilings, previously painted with cement base paint, lime, gypsum, and any kind of indoor space, bedrooms, toilets, living rooms, office spaces, services etc.. It is widely used in areas where there are high levels of humidity.

APPLICATION PROCEDURE

Surface preparation
The surfaces should be completely dry, clean and free from dust and elements that hinder the adhesion of the paint. Repair all cracks and damaged parts using the line products of Deutschcolor, Vox 707, Glatte Spachtel, Spachtel Finish, etc. Then, apply Reninger 42 and leave it to operate. Clean the surface with water after 30 minutes. Apply a second coat of Reninger 42 by brush or roller, and leave it to operate for 24 hours. After the surface has dried fully, apply the Macht Tiefgrund Wasser liner, diluted with water in 1:1 ratio. When applying the liner, avoid creating a film, which then creates problems connecting the paint to the support.

Product preparation
Dilute the product Schimmel Stopen 990 with 10-15% water, except for bases D and TR which are recommended to be diluted with not more than 5% water. Use a low speed electric mixer to make a mixture as uniform and complete as possible.

Application
Application of the product Schimmel Stopen 990 is made withe a brush or roller. The application cycle includes at least the application of two coatings of paint. The time needed between the two coatings is 2-4 hours depending on weather conditions, temperature and humidity and humidity. Clean brushes, rollers and other working tools with water before the paint dries.

Storage
36 months if stored in a dry place, away from heat sources, at a temperature between +5°C and +30°C. Protect it from frost.

Technical data

Resin:	PVA VEOVA Polymer
Density EN ISO 2811- 1:	1,45±0,02 gr/ml
Dry residue EN ISO 3251:	65%
Dilution degree:	10 – 15%
Viscosity:	110 ± 5 KU
Drying time between two coatings:	4 - 6 hours
VOC in the ready product (European Directive 2004/42/CE) (g/l):	≤ 10
TTVOC ambient emissions, Simulation chamber ISO 16000- 9 (mg/m^3):	≤ 0.2
Covering ability EN ISO 6504- 3:	≥ 99.5% Class III
Washing resistance ISO 11998:	Class III

Notes
- It is recommended not to wash the painted surfaces until 20-30 days after application.
- In fresh concrete surfaces the product should be applied at least after 30-40 days.

Consumption: 9 - 10 m^2/ lt (two coats)

Packaging: 3lt / 10lt plastic buckets

PICASSO MASTER

Premium quality plastic paint for professional use with very good resistance to washing and superior covering properties with emulsion-based PVA-VEOVA.

Characteristics
- Whiteness and twinkling
- Finished surface matt
- Very good covering
- It is available in 4 basis W, P, D and TR
- Excellent workability and levelling
- Very strong adhesion and rapid drying
- High resistance to frequent washings
- Supports 14000 washing cycles 30 days after

Recommendations for use
Used on all walls and ceilings of any kind of interior, bedroom, toilet, living rooms, office spaces, services etc.

APPLICATION PROCEDURE

Surface preparation
The surfaces should be completely dry, clean and free from dust and elements that hinder the adhesion of the paint. Repair all cracks and damaged parts using the line products of Deutschcolor, Natur Kalk, Vox 707, Glatte Spachtel, Spachtel Finish, etc. Then, it is recommended to apply the Macht Tiefgrund Wasser liner, diluted with 1:1 water or a water-diluted Macht Hafose liner Macht Haftgrund diluted in a 1:3 ratio of water. When applying the liner, avoid creating a film, which then creates problems connecting the paint to the support.

Product preparation
Dilute the product Picasso Master with 10-15% water, except for bases D and TR which are recommended to be diluted with not more than 5% water. Use a low speed electric mixer to make the mixture as uniform and complete as possible.

Application
Application of the product Picasso Master is made with a brush or roller. The application cycle includes at least the application of two coatings of paint. The time needed between the two coatings is 2-4 hours depending on weather conditions, temperature and humidity. Clean brushes, rollers and other working tools with water before the paint dries.

Storage
36 months if stored in a dry place, away from heat sources, at a temperature between +5°C and +30°C. Protect it from frost.

Technical data	
Resin:	PVA VEOVA Polymer
Density EN ISO 2811- 1:	1,45±0,02 gr/ml
Dry residue EN ISO 3251:	65%
Dilution degree:	10 – 15%
Viscosity:	110 ± 5 KU
Drying time between two coatings:	4 - 6 hours
VOC in the ready product (European Directive 2004/42/CE) (g/l):	≤ 10
TVOC ambient emissions, Simulation chamber ISO 16000- 9 (mg/m³):	≤ 0.2
Covering ability EN ISO 6504- 3:	≥ 98% Class I
Washing resistance ISO 11998:	Class I

Notes
- It is recommended not to wash the painted surfaces until 30 days after application.
- In fresh concrete surfaces the product should be applied at least after 30-40 days.

Consumption: 9 - 10 m² / lt (two coats)

Packaging: 3lt / 10lt plastic buckets

DEUTSCH COLOR

PICASSO CLASSIC VN- 35

Premium quality plastic paint for professional use with very good resistance to washing and superior covering properties with emulsion-based PVA-VEOVA.

Characteristics
- Whiteness and twinkling
- Finished surface matt
- Very good covering
- It is available in 4 basis W, P, D and TR
- Excellent workability and levelling
- Very strong adhesion and rapid drying
- High resistance to frequent washings
- Supports 14000 washing cycles 30 days after

Recommendations for use
Used on all walls and ceilings of any kind of interior, bedroom, toilet, living rooms, office spaces, services etc.

APPLICATION PROCEDURE

Surface preparation
The surfaces should be completely dry, clean and free from dust and elements that hinder the adhesion of the paint. Repair all cracks and damaged parts using the line products of Deutschcolor, Natur Kalk, Vox 707, Glatte Spachtel, Spachtel Finish, etc. Then, it is recommended to apply the Macht Tiefgrund Wasser liner, diluted with 1:1 water or a water-diluted Macht Haftgrund liner at 1:3 ratio. When applying the liner, avoid creating a film, which then creates problems connecting the paint to the support.

Product preparation
Dilute the product Picasso Classic VN-35 with 10-15% water, except for bases D and TR which are recommended to be diluted with not more than 5% water. Use a low speed electric mixer to make the mixture as uniform and complete as possible.

Application
Application of the product Picasso Classic VN-35 is made with a brush or roller. The application cycle includes at least the application of two coatings of paint. The time needed between the two coatings is 2-4 hours depending on weather conditions, temperature and humidity. Clean brushes, rollers and other working tools with water before the paint dries.

Storage
36 months if stored in a dry place, away from heat sources, at a temperature between +5°C and +30°C. Protect it from frost.

Technical data	
Resin:	PVA VEOVA Polymer
Density EN ISO 2811- 1:	1,45±0,02 gr/ml
Dry residue EN ISO 3251:	65%
Dilution degree:	10 – 15%
Viscosity:	110 ± 5 KU
Drying time between two coatings:	4 - 6 hours
VOC in the ready product (European Directive 2004/42/CE) (g/l):	≤ 10
TVOC ambient emissions, Simulation chamber ISO 16000- 9 (mg/m³):	≤ 0.2
Covering ability EN ISO 6504- 3:	≥ 98% Class I
Washing resistance ISO 11998:	Class I

Notes
- It is recommended not to wash the painted surfaces until 30 days after application.
- In fresh concrete surfaces the product should be applied at least after 30-40 days.

Consumption: 9 – 10 m² / lt (two coats)

Packaging: 1lt / 3lt / 10lt plastic buckets

PICASSO CLASSIC VN- 35 ULTRA WHITE

Premium quality plastic paint produced with the most advanced "One Coat" technology with high resistance to continuous washing and superior covering properties with emulsion-based PVA-VEOVA.

Characteristics
- Whiteness and twinkling
- Superior covering
- Finished surface matt
- Available only in the W base
- Very strong adhesion and rapid drying
- High resistance to frequent washings
- Excellent workability and levelling
- Supports 14000 washing cycles 30 days after the application

Recommendations for use
Used on all walls and ceilings of any kind of interior, bedroom, toilet, living rooms, office spaces, services etc.

APPLICATION PROCEDURE

Surface preparation
The surfaces should be completely dry, clean and free from dust and elements that hinder the adhesion of the paint. Repair all cracks and damaged parts using the line products of Deutschcolor, Vox 707, Glatte Spachtel, Spachtel Finish etj. Then, it is recommended to apply the Macht Tiefgrund Wasser liner, diluted with 1:1 water or a water-diluted Macht Haftgrund liner at 1:3 ratio. When applying the liner, avoid creating a film, which then creates problems connecting the paint to the support.

Product preparation
Dilute the product Picasso Classic VN-35 Ultra White with 10-15% water, making sure it is fully mixed with the paint. Use a low speed electric mixer to make a mixture as uniform and complete as possible.

Application
Application of the product Picasso Classic VN-35 Ultra White is made with a brush or roller. Apply at least one coat of paint. Drying time for the first layer is 2-4 hours depending on weather conditions, temperature and humidity. Clean brushes, rollers and other working tools with water before the paint dries.

Storage
36 months if stored in a dry place, away from heat sources, at a temperature between +5°C and +30°C. Protect it from frost.

Notes
- It is recommended not to wash the painted surfaces until 30 days after application.
- In fresh concrete surfaces the product should be applied at least after 30-40 days.

Technical data	
Resin:	PVA VEOVA Polymer
Density EN ISO 2811- 1:	1,45±0,02 gr/ml
Dry residue EN ISO 3251:	65%
Dilution degree:	10 – 15%
Viscosity:	110 ± 5 KU
Drying time between two coatings:	2 - 4 hours
VOC in the ready product (European Directive 2004/42/CE) (g/l):	≤ 10
TVOC ambient emissions, Simulation chamber ISO 16000- 9 (mg/m^3):	≤ 0.2
Covering ability EN ISO 6504- 3:	≥ 99.5% Class I
Washing resistance ISO 11998:	Class I

Consumption: 16 – 18 m^2 / lt (one coat)

Packaging: 3lt / 10lt plastic buckets

PICASSO KINDER EC31

Ecological plastic paint, without aroma, for indoor use for children rooms with emulsion-based PVA-VEOVA.

Characteristics
- Superior whiteness
- It is available in 4 basis W, P, D and TR
- Excellent workability and levelling
- Very strong adhesion and rapid drying
- High resistance to frequent washings
- Supports 10000 washing cycles 30 days after application
- Very good covering and finished surface matt
- Long duration paints

Recommendations for use
It is used in all interior, new, old and painted walls and ceilings, previously painted with cement base paint, lime, gypsum, especially in children bedrooms, kindergarten, schools, health centres, etc.

APPLICATION PROCEDURE

Surface preparation
The surfaces should be completely dry, clean and free from dust and elements that hinder the adhesion of the paint. Repair all cracks and damaged parts using the line products of Deutschcolor, Natur Kalk, Vox 707, Glatte Spachtel, Spachtel Finish, etc. Then, it is recommended to apply the Macht Tiefgrund Wasser liner, diluted with 1:1 water or a water-diluted Macht Haftgrund liner at 1:3 ratio. When applying the liner, avoid creating a film, which then creates problems connecting the paint to the support.

Product preparation
Dilute the product Picasso Master with 10-15% water, except for bases D and TR which are recommended to be diluted with not more than 5% water. Use a low speed electric mixer to make the mixture as uniform and complete as possible.

Application
Application of the product Picasso Kinder EC31 is made with a brush or roller. The application cycle includes at least the application of two coatings of paint. The time needed between the two coatings is 2-4 hours depending on weather conditions, temperature and humidity. Clean brushes, rollers and other working tools with water before the paint dries.

Storage
36 months if stored in a dry place, away from heat sources, at a temperature between +5°C and +30°C. Protect it from frost.

Technical data	
Resin:	PVA VEOVA Polymer
Density EN ISO 2811- 1:	1,45±0,02 gr/ml
Dry residue EN ISO 3251:	65%
Dilution degree:	10 – 15%
Viscosity:	110 ± 5 KU
Drying time between two coatings:	4 - 6 hours
VOC in the ready product (European Directive 2004/42/CE) (g/l):	≤ 1
TVOC ambient emissions, Simulation chamber ISO 16000- 9 (mg/m^3):	≤ 0.05
Covering ability EN ISO 6504- 3:	≥ 99.5% Class III
Washing resistance ISO 11998:	Class III

Notes
- It is recommended not to wash the painted surfaces until 30 days after application.
- In fresh concrete surfaces the product should be applied at least after 30-40 days.

Consumption: 9 - 10 m^2/ lt (two coats)

Packaging: 3lt / 10lt plastic buckets

PICASSO GLÄNZEND VN- 51

Premium quality luminous plastic paint with very good covering and levelling properties.

Characteristics
- Whiteness and twinkling
- Very good covering
- Perfect workability and levelling
- Finished surface glossy
- Very strong adhesion and rapid drying
- It is available in 4 basis W, P, D and TR
- Supports 10000 washing cycles 30 days after application
- Extraordinary resistance to frequent washings and detergents

Recommendations for use
It is used in all interior, new, old and painted walls and ceilings, previously painted with cement base paint, lime, gypsum. Recommended for bedrooms, toilets, living rooms, office spaces, services and other surfaces where a high decorating effect is required.

APPLICATION PROCEDURE

Surface preparation
The surfaces should be completely dry, clean and free from dust and elements that hinder the adhesion of the paint. Repair all cracks and damaged parts using the line products of Deutschcolor, Vox 707, Glatte Spachtel, Spachtel Finish, etc. Then, it is recommended to apply the Macht Tiefgrund Wasser liner, diluted with 1:1 water or a water-diluted Macht Haftgrund liner at 1:3 ratio. When applying the liner, avoid creating a film, which then creates problems connecting the paint to the support.

Product preparation
Dilute the product Picasso Glänzend VN-51 with 10-15% water, except for bases D and TR which are recommended to be diluted with not more than 5% water. Use a low speed electric mixer to make a mixture as uniform and complete as possible.

Application
Application of the product Picasso Glänzend VN-51 is made with a brush or roller. The application cycle includes at least the application of two coatings of paint. The time needed between the two coatings is 2-4 hours depending on weather conditions, temperature and humidity. Clean brushes, rollers and other working tools with water before the paint dries.

Storage
36 months if stored in a dry place, away from heat sources, at a temperature between +5°C and +30°C. Protect it from frost.

Technical data	
Resin:	PVA VEOVA Polymer
Density EN ISO 2811- 1:	1,45±0,02 gr/ml
Dry residue EN ISO 3251:	65%
Dilution degree:	10 – 15%
Viscosity:	110 ± 5 KU
Drying time between two coatings:	4 - 6 hours
VOC in the ready product (European Directive 2004/42/CE) (g/l):	≤ 10
TVOC ambient emissions, Simulation chamber ISO 16000- 9 (mg/m³):	≤ 0.2
Covering ability EN ISO 6504- 3:	≥ 98% Class II
Washing resistance ISO 11998:	Class III

Notes
- It is recommended not to wash the painted surfaces until 30 days after application.
- In fresh concrete surfaces the product should be applied at least after 30-40 days.

Consumption: 9 - 10 m²/ lt (two coats)

Packaging: 3lt / 10lt plastic buckets

PICASSO SIL-200

Antibacterial plastic paint with excellent hygienic properties thanks to Silver Complex technology, ideal for hospital painting.

Characteristics
- Superior whiteness
- Finished surface matt
- Excellent coverage
- It is available in 4 basis W, P, D and TR
- Very good workability and levelling
- Very strong adhesion and rapid drying
- Supports 5000 washing cycles 30 days after application
- High resistance to frequent washings and microorganisms

Recommendations for use
It is used in all interior, new, old and painted walls and ceilings, previously painted with cement base paint, lime, gypsum. Recommended for, bedrooms, toilets, living rooms, office spaces, services but, mainly in those spaces where high hygiene requirements, such as hospitals, health centres, industrial facilities, laboratories, clinics, etc.

APPLICATION PROCEDURE

Surface preparation
The surfaces should be completely dry, clean and free from dust and elements that hinder the adhesion of the paint. Repair all cracks and damaged parts using the line products of Deutschcolor, Natur Kalk, Vox 707, Glatte Spachtel, Spachtel Finish, etc. Then, it is recommended to apply the Macht Tiefgrund Wasser liner, diluted with 1:1 water or a water-diluted Macht Haftgrund liner at 1:3 ratio. When applying the liner, avoid creating a film, which then creates problems connecting the paint to the support.

Product preparation
Dilute the product Picasso Sil-200 with 10-15% water, except for bases D and TR which are recommended to be diluted with not more than 5% water. Use a low speed electric mixer to make a mixture as uniform and complete as possible.

Application
Application of the product Picasso Sil-200 is made with a brush or roller. The application cycle includes at least the application of two coatings of paint. The time needed between the two coatings is 2-4 hours depending on weather conditions, temperature and humidity. Clean brushes, rollers and other working tools with water before the paint dries.

Storage
36 months if stored in a dry place, away from heat sources, at a temperature between +5°C and +30°C. Protect it from frost.

Technical data	
Resin:	Acrylic copolymer
Density EN ISO 2811- 1:	1,45±0,02 gr/ml
Dry residue EN ISO 3251:	60%
Dilution degree:	10 – 15%
Viscosity:	110 ± 5 KU
Drying time between two coatings:	4 - 6 hours
VOC in the ready product (European Directive 2004/42/CE) (g/l):	≤ 1
TVOC ambient emissions, Simulation chamber ISO 16000- 9 (mg/m³):	≤ 0.05
Covering ability EN ISO 6504- 3:	≥ 99.5% Class III
Washing resistance ISO 11998:	Class III

Notes
- It is recommended not to wash the painted surfaces until 30 days after application.
- In fresh concrete surfaces the product should be applied at least after 30-40 days.

Consumption: 9 - 10 m²/ lt (two coats)

Packaging: 3lt / 10lt plastic buckets

SCHIMMEL STOPPEN 990 PLUS

Premium quality plastic paint, with waterproofing effect, high resistance to continuous washing and fungus, with emulsion-based PVA-VEOVA.

Characteristics
- Isothermal paint
- It is available in 4 basis W, P, D and TR
- Prevents fungus and bacterial growth
- Very good workability and levelling
- Very strong adhesion and rapid drying
- Supports 3200 washing cycles 30 days after application
- Excellent coverage
- Finished surface matt

Recommendations for use
It is used in all interior, new, old and painted walls and ceilings, previously painted with cement base paint, lime, gypsum, and any kind of indoor space, bedrooms, toilets, living rooms, office spaces, services etc.. It is widely used in areas where there are high levels of humidity with condensing effect.

APPLICATION PROCEDURE

Surface preparation
The surfaces should be completely dry, clean and free from dust and elements that hinder the adhesion of the paint. Repair all cracks and damaged parts using the line Deutschcolor, Vox 707, Glatte Spachtel, Spachtel Finish, etc. Then apply Reinger 42, which is ready for use, and after 30 minutes, apply a second coat of Reninger 42 by brush or roller, and leave it to operate for 24 hours. After the surface has dried fully, apply the Macht Tiefgrund Wasser liner, diluted with water in 1:1 ratio. When applying the liner, avoid creating a film, which then creates problems connecting the paint to the support.

Product preparation
Dilute the product Schimmel Stopen 990 with 10-15% water, except for bases D and TR which are recommended to be diluted with not more than 5% water. Use a low speed electric mixer to make a mixture as uniform and complete as possible.

Application
Application of the product Schimmel Stopen 990 Plus is made with a brush or roller. The application cycle includes at least the application of two coatings of paint. The time needed between the two coatings is 2-4 hours depending on weather conditions, temperature and humidity. Clean brushes, rollers and other working tools with water before the paint dries.

Storage
36 months if stored in a dry place, away from heat sources, at a temperature between +5°C and +30°C. Protect it from frost.

Technical data	
Resin:	PVA VEOVA Polymer
Density EN ISO 2811- 1:	1,45±0,02 gr/ml
Dry residue EN ISO 3251:	65%
Dilution degree:	10 – 15%
Viscosity:	110 ± 5 KU
Drying time between two coatings:	4 - 6 hours
VOC in the ready product (European Directive 2004/42/CE) (g/l):	≤ 10
TVOC ambient emissions, Simulation chamber ISO 16000- 9 (mg/m^3):	≤ 0.2
Covering ability EN ISO 6504- 3:	≥ 99.5% Class III
Washing resistance ISO 11998:	Class III

Notes
- It is recommended not to wash the painted surfaces until 20-30 days after application.
- In fresh concrete surfaces the product should be applied at least after 30-40 days.

Consumption: 9 - 10 m^2/ lt (two coats)

Packaging: 3lt / 10lt plastic buckets

DEUTSCH COLOR

NIKOTINA FARBEN

High quality plastic paint, high resistance to continuous washing and yellowing due to smoke, acrylic emulsion-based.

Characteristics
- Superior whiteness
- Very good covering properties
- It is available in 4 basis W, P, D and TR
- High resistance to frequent washings
- Supports 3500 washing cycles 30 days after application
- Very good properties in workability and levelling
- Good bonding properties and short drying time
- Does not contain hazardous substances, formaldehydes
- Excellent hues, long term colour durability

Recommendations for use
It is used in all interior, new, old and painted walls and ceilings, previously painted with cement base paint, lime, gypsum, especially in living bedrooms, office spaces, restaurants, bars, etc. It is mainly used to paint all interior spaces, where central heating or chimneys are used, as well as in spaces where smoking is allowed.

APPLICATION PROCEDURE

Surface preparation
The surfaces should be completely dry, clean and free from dust and elements that hinder the adhesion of the paint. Repair all cracks and damaged parts using the line products of Deutschcolor, Natur Kalk, Vox 707, Glatte Spachtel, Spachtel Finish, etc. Then, it is recommended to apply the Macht Tiefgrund Wasser liner, diluted with 1:1 water or a water-diluted Macht Haftgrund liner at 1:3 ratio. When applying the liner, avoid creating a film, which then creates problems in connecting the paint to the support.

Product preparation
Dilute the product Nikotina Farbe with 10-15% water, except for bases D and TR which are recommended to be diluted with not more than 5% water. Use a low speed electric mixer to make a mixture as uniform and complete as possible.

Application
Application of the product Nikotina Farbe is made with a brush or roller. The application cycle includes at least the application of two coatings of paint. The time needed between the two coatings is 2-4 hours depending on weather conditions, temperature, and humidity.

Storage
36 months if stored in a dry place, away from heat sources, at a temperature between +5°C and +30°C. Protect it from frost.

Technical data	
Resin:	Acrylic copolymer
Density EN ISO 2811- 1:	1,35±0,02 gr/ml
Dry residue EN ISO 3251:	65%
Dilution degree:	10 – 15%
Viscosity:	110 ± 5 KU
Drying time between two coatings:	4 - 6 hours
VOC in the ready product (European Directive 2004/42/CE) (g/l):	≤ 10
TVOC ambient emissions, Simulation chamber ISO 16000- 9 (mg/m^3):	≤ 0.2
Covering ability EN ISO 6504- 3:	≥ 99.5% Class III
Washing resistance ISO 11998:	Class III

Notes
- It is recommended to not wash the surfaces applied with the product for a period of 30 days after the application.
- In fresh concrete surfaces the product should be applied at least after 30-40 days.
- It is recommended not to apply the product in temperatures under 5ºC.

Consumption: 9 - 10 m^2/ lt (two coats)

Packaging: 1lt / 3lt / 10lt plastic buckets

SCHICK FARBE

Special plastic paint on which different notes or drawings can be written and deleted.

Characteristics
- Superior whiteness
- Ammonia free
- Good covering properties
- Good workability and levelling properties
- Good bonding properties and dries rapidly
- Good resistance to frequent washings
- It is characterized by a thin and very smooth surface after it is applied
- Excellent hues characterized by a long paint durability

Recommendations for use
It is used in all interior, new and walls, previously painted with cement based paint, lime, gypsum. It can be applied in school, office and other institutions walls.

APPLICATION PROCEDURE

Surface preparation
The surfaces should be completely dry, clean and free from dust and elements that hinder the adhesion of the paint. Repair all cracks and damaged parts using the line products of Deutschcolor, Natur Kalk, Vox 707, Glatte Spachtel, Spachtel Finish, etc. Then, it is recommended to apply the Macht Tiefgrund Wasser liner, diluted with 1:1 water or a water-diluted Macht Haftgrund liner at 1:3 ratio. When applying the liner, avoid creating a film, which then creates problems connecting the paint to the support.

Product preparation
The product is ready for application.

Application
Application of the product Schick Farbe is made with a brush or roller. The application cycle includes at least the application of two coatings of paint. The time needed between the two coatings is 2-4 hours depending on weather conditions, temperature and humidity. Clean brushes, rollers and other working tools with water before the paint dries.

Storage
36 months if stored in a dry place, away from heat sources, at a temperature between +5°C and +30°C. Protect it from frost.

Technical data	
Resin:	Acrylic copolymer
Density EN ISO 2811- 1:	1,45±0,02 gr/ml
Dry residue EN ISO 3251:	65%
Dilution degree:	Ready for use
Viscosity:	110 ± 5 KU
Drying time between two coatings:	4 - 6 hours
VOC in the ready product (European Directive 2004/42/CE) (g/l):	≤ 10
TVOC ambient emissions, Simulation chamber ISO 16000- 9 (mg/m^3):	≤ 0.2
Covering ability EN ISO 6504- 3:	≥ 99.5% Class III
Washing resistance ISO 11998:	Class III

Notes
- It is recommended not to wash the painted surfaces until 30 days after application.
- In fresh concrete surfaces the product should be applied at least after 30-40 days.

Consumption: 9 - 10 m^2/ lt (two coats)

Packaging: 1lt plastic buckets

DEUTSCH COLOR

ALPEN PROFI - 32

Economical acrylic paint for outdoor use with very good covering and levelling properties.

Characteristics
- Good bonding properties
- Finished surface matt
- It is available in 2 basis , W and P
- Very good covering
- Economical solution for outdoor use

Recommendations for use
It is used in all interior, new, old and previously painted walls with cement base paint, cement, lime etc. Used in any kind of outdoor space such as scratched plaster, plaster finishing, grout facade etc. and also to paint the concrete surfaces treated treated with liner.

APPLICATION PROCEDURE

Surface preparation
The surfaces should be completely dry, clean and free from dust and elements that hinder the adhesion of the paint. Repair all cracks and damaged parts using the line products of Deutschcolor, Spachtel Massen, etc. Then, it is recommended to apply the Macht Tiefgrund Wasser liner, diluted with 1:1 water. When applying the liner, avoid creating a film, which then creates problems connecting the paint to the support.

Product preparation
Dilute the product Alpen Profi-32 with 10-15% water, making sure it is fully mixed with the paint. Use a low speed electric mixer to make the mixture as uniform and complete as possible.

Application
The product Alpen Profi-32 is applied by brush or roller. The application cycle includes at least the application of two coatings of paint. The time needed between the two coatings is 2-4 hours depending on weather conditions, temperature and humidity. Clean brushes, rollers and other working tools with water before the paint dries.

Storage
36 months if stored in a dry place, away from heat sources, at a temperature between +5°C and +30°C. Protect it from frost.

Technical data	
Resin:	Acrylic copolymer
Density EN ISO 2811- 1:	1,55±0,02 gr/ml
Dry residue EN ISO 3251:	65%
Dilution degree:	10 – 15%
Viscosity:	120 ± 5 KU
Drying time between two coatings:	4 - 6 hours
VOC in the ready product (European Directive 2004/42/CE) (g/l):	≤ 10
TVOC ambient emissions, Simulation chamber ISO 16000- 9 (mg/m^3):	≤ 0.2
Covering ability EN ISO 6504- 3:	≥ 98% Class II
Washing resistance ISO 11998:	Class III

Notes
- In fresh concrete surfaces, the product should be applied at least after 30-40 days.
- It is recommended to avoid application of product in temperatures below 5°C. or shortly before rain.

Consumption: 9 - 10 m^2 / lt (two coats)

Packaging: 1lt / 9lt / 15lt plastic buckets

ALPEN PROFI - 21

High quality acrylic paint, with high resistance to different weather conditions and good covering properties.

Characteristics
- Superior whiteness
- Finished surface matt
- Excellent coverage
- It is available in 3 basis W, P and D
- Very good workability and levelling
- Very strong adhesion and rapid drying
- Long duration paints

Recommendations for use
It is used in all interior, new, old and previously painted walls with cement base paint, cement, lime etc. Used in any kind of outdoor space, scratched plaster, plaster finishing, grout facade, etc. and also to paint the concrete surfaces treated with liner.

APPLICATION PROCEDURE

Surface preparation
The surfaces should be completely dry, clean and free from dust and elements that hinder the adhesion of the paint. Repair cracks and damaged parts using the line products of Deutschcolor, Spachtel Massen, etc.. Then, it is recommended to apply the Macht Tiefgrund Wasser liner, diluted with 1:1 water. When applying the liner, avoid creating a film, which then creates problems connecting the paint to the support.

Product preparation
Dilute the product Picasso Profi - 21 with 10 - 15% water, except for base D which is not recommended more than 5%, making sure it is fully mixed with the paint. Use a low speed electric mixer to make the mixture as uniform and complete as possible.

Application
The product Alpen Profi-21 is applied with a brush or roller. The application cycle includes at least the application of two coatings of paint. The time needed between the two coatings is 2-4 hours depending on weather conditions, temperature and humidity. Clean brushes, rollers and other working tools with water before the paint dries.

Storage
36 months if stored in a dry place, away from heat sources, at a temperature between 5°C and +30°C. Protect it from frost.

Technical data

Resin:	Acrylic copolymer
Density EN ISO 2811- 1:	1,50±0,02 gr/ml
Dry residue EN ISO 3251:	65%
Dilution degree:	10 – 15%
Viscosity:	110 ± 5 KU
Drying time between two coatings:	4 - 6 hours
VOC in the ready product (European Directive 2004/42/CE) (g/l):	≤ 10
TVOC ambient emissions, Simulation chamber ISO 16000- 9 (mg/m^3):	≤ 0.2
Covering ability EN ISO 6504- 3:	≥ 98% Class II
Washing resistance ISO 11998:	Class III

- In fresh concrete surfaces, the product should be applied at least after 30-40 days.
- It is recommended to avoid the application of product in temperatures below 5ºC or shortly before rain.

Consumption: 9 - 10 m^2 / lt (two coats)

Packaging: 1lt / 3lt / 10lt plastic buckets

Notes

DEUTSCH COLOR

ALPEN STABIL

Premium quality acrylic paint, with high resistance to different weather conditions, acrylic emulsion-based.

Characteristics
- Long duration paints
- Matt surface
- Superior whiteness
- It is available in 4 basis W, P, D and TR
- Very good properties in workability and levelling
- Very good effect in shadow covering
- Good bonding properties and short drying time

Recommendations for use
It is used in all interior, new, old and previously painted walls with cement base paint, cement, lime etc. Used in any kind of outdoor space such as scratched plaster, plaster finishing, grout facade, etc. and also to paint the concrete surfaces treated with liner.

APPLICATION PROCEDURE

Surface preparation
The surfaces should be completely dry, clean and free from dust and elements that hinder the adhesion of the paint. Repair all cracks and damaged parts using the line products of Deutschcolor, Spachtel Massen, etc. Then, it is recommended to apply the Macht Tiefgrund Wasser liner, diluted with 1:1 water. When applying the liner, avoid creating a film, which then creates problems connecting the paint to the support.

Product preparation
Dilute the product Alpen Stabil with 10-15% water, except for D and TR basis, which are recommended not to be diluted with more than 5% water, making sure it is fully mixed with the paint. Use a low speed electric mixer to make the mixture as uniform and complete as possible.

Application
The product Alpen Stabil is applied by brush or roller. The application cycle includes at least the application of two coatings of paint. The time needed between the two coatings is 2-4 hours depending on weather conditions, temperature and humidity. Clean the working tools with water before the paint dries.

Storage
36 months if stored in a dry place, away from heat sources, at a temperature between +5°C and +30°C. Protect it from frost.

Technical data

Resin:	Acrylic copolymer
Density EN ISO 2811- 1:	1,45±0,02 gr/ml
Dry residue EN ISO 3251:	65%
Dilution degree:	10 – 15%
Viscosity:	110 ± 5 KU
Drying time between two coatings:	4 - 6 hours
VOC in the ready product (European Directive 2004/42/CE) (g/l):	≤ 10
TVOC ambient emissions, Simulation chamber ISO 16000- 9 (mg/m^3):	≤ 0.2
Covering ability EN ISO 6504- 3:	≥ 99.5% Class III
Washing resistance ISO 11998:	Class III

Notes
- In new concrete surfaces the product is recommended to be used at \ least after approx. 30-40 days.

Consumption: 9 - 10 m^2 / lt (two coats)

Packaging: 3lt / 10lt plastic buckets

ALPEN CLASSIC QL- 11

Premium quality acrylic paint, with high resistance to different weather conditions, acrylic emulsion-based.

Characteristics
- Matt surface
- Superior whiteness
- It is available in 4 basis W, P, D and TR
- Very good workability and levelling properties
- Very good effect in shadow covering
- Good bonding properties and short drying time

Recommendations for use
It is used in all interior, new, old and previously painted walls with cement base paint, cement, lime etc. Used in any kind of outdoor space such as scratched plaster, plaster finishing, grout facade, etc. and also to paint the concrete surfaces treated with liner.

APPLICATION PROCEDURE

Surface preparation
The surfaces should be completely dry, clean and free from dust and elements that hinder the adhesion of the paint. Repair all cracks and damaged parts using the line products of Deutschcolor, Natur Kalk, Vox 707, Glatte Spachtel, Spachtel Finish, etc. Then, it is recommended to apply the Macht Tiefgrund Wasser liner, diluted with 1:1 water. When applying the liner, avoid creating a film, which then creates problems connecting the paint to the support.

Product preparation
Dilute the product Alpen Classic QL-11, 10-15% water, except for bases D and TR which are recommended to be diluted with not more than 5% water. Use a low speed electric mixer to make the mixture as uniform and complete as possible.

Application
The product Alpen Classic QL-11 is applied with a brush or roller. The application cycle includes at least the application of two coatings of paint. The time needed between the two coatings is 2-4 hours depending on weather conditions, temperature and humidity. Clean brushes, rollers and other working tools with water before the paint dries.

Storage
36 months if stored in a dry place, away from heat sources, at a temperature between +5°C and +30°C. Protect it from frost.

Technical data	
Resin:	Acrylic copolymer
Density EN ISO 2811- 1:	1,45±0,02 gr/ml
Dry residue EN ISO 3251:	65%
Dilution degree:	10 – 15%
Viscosity:	110 ± 5 KU
Drying time between two coatings:	4 - 6 hours
VOC in the ready product (European Directive 2004/42/CE) (g/l):	≤ 10
TVOC ambient emissions, Simulation chamber ISO 16000- 9 (mg/m^3):	≤ 0.2
Covering ability EN ISO 6504- 3:	≥ 99.5% Class III
Washing resistance ISO 11998:	Class III

Notes
- In fresh concrete surfaces the product should be applied at least after 30-40 days.
- It is recommended to avoid the application of product in temperatures below 5ºC.

Consumption: 9 - 10 m^2 / lt (two coats)

Packaging: 1lt / 3lt / 10lt plastic buckets

DEUTSCH COLOR

QUARTZ EFFECT

High quality acrylic paint, with high resistance to different weather conditions and good covering properties.

Characteristics
- Good covering properties
- It is available in 2 basis, W and D 2
- High resistance to moisture
- Very good workability
- Granular surface with quartz effect
- Good bonding properties and short drying time

Recommendations for use
It is used in all interior, new, old and previously painted walls with cement base paint, cement, lime etc. Used in any kind of outdoor space, scratched plaster, plaster finishing, grout facade, etc. and also to paint the concrete surfaces treated with liner.

APPLICATION PROCEDURE

Surface preparation
The surfaces should be completely dry, clean and free from dust and elements that hinder the adhesion of the paint. Repair all cracks and damaged parts using the line products of Deutschcolor, Nature Kalk, Spachtel Massen, etj. Then, it is recommended to apply the Macht Tiefgrund Wasser liner, diluted with 1:1 water. When applying the liner, avoid creating a film, which then creates problems connecting the paint to the support.

Product preparation
Dilute the product Quartz Effect with 10-15% water, making sure to mix it completely with the paint. Use a low speed electric mixer to make the mixture as uniform and complete as possible.

Application
The product Quartz Effect is applied by brush or roller. The application cycle includes at least the application of two coatings of paint. The time needed between the two coatings is 2-4 hours depending on weather conditions, temperature and humidity. Clean brushes, rollers and other working tools with water before the paint dries.

Storage
36 months if stored in a dry place, away from heat sources, at a temperature between +5°C and +30°C. Protect it from frost.

Technical data	
Resin:	Acrylic copolymer
Density EN ISO 2811- 1:	1,45±0,02 gr/ml
Dry residue EN ISO 3251:	65%
Dilution degree:	10 – 15%
Viscosity:	110 ± 5 KU
Drying time between two coatings:	4 - 6 hours
VOC in the ready product (European Directive 2004/42/CE) (g/l):	≤ 10
TVOC ambient emissions, Simulation chamber ISO 16000- 9 (mg/m^3):	≤ 0.2
Covering ability EN ISO 6504- 3:	≥ 99.5% Class III
Washing resistance ISO 11998:	Class III

Notes
- In new concrete surfaces the product is recommended to be used at least after approx. 30-40 days.

Consumption: 2.5 - 4.5m^2 / lt (two coats)

Packaging: 3lt / 10lt plastic buckets

FLIESEN FARBE F20

Premium quality acrylic paint, with high resistance to different weather conditions, acrylic emulsion-based.

Characteristics
- Strong bonding
- Good workability
- Available in reddish colour
- Long term colour durability
- Weather conditions resistant

Recommendations for use
Elastomer paint suitable for tile roofs and their concrete edges.

APPLICATION PROCEDURE

Surface preparation
The surfaces should be completely dry, clean and free from dust and elements that hinder the adhesion of the paint. Repair all cracks and damaged parts and then, it is recommended to apply the Macht Tiefgrund Wasser liner, diluted with 1:1 water. When applying the liner, avoid creating a film, which then creates problems connecting the paint to the support.

Product preparation
Dilute the product Fliesen Farbe F20 with 10-15% water, making sure it is fully mixed with the paint. Use a low speed electric mixer to make the mixture as uniform and complete as possible.

Application
The product Fliesen Farbe F20 is applied by brush or roller. The application cycle includes at least the application 1 coating of paint. Clean brushes, rollers and other working tools with water before the paint dries.

Storage
36 months if stored in a dry place, away from heat sources, at a temperature between +5°C and +30°C. Protect it from frost.

Notes
- In new concrete surfaces the product is recommended to be used at least after approx. 30-40 days.

Consumption: 9 - 10 m^2 / lt (two coats)

Packaging: 3lt / 10lt plastic buckets

Technical data	
Resin:	Acrylic copolymer
Density EN ISO 2811- 1:	1,45±0,02 gr/ml
Dry residue EN ISO 3251:	65%
Dilution degree:	10 – 15%
Viscosity:	110 ± 5 KU
Drying time between two coatings:	4 - 6 hours
VOC in the ready product (European Directive 2004/42/CE) (g/l):	≤ 10
TVOC ambient emissions, Simulation chamber ISO 16000- 9 (mg/m^3):	≤ 0.2
Covering ability EN ISO 6504- 3:	≥ 99.5% Class III
Washing resistance ISO 11998:	Class III

DEUTSCH COLOR

ALPEN SILICON S47

High quality paint, with high resistance to different weather conditions, acrylic-silicon emulsion based.

Characteristics
- Superior whiteness
- It is available in 3 basis W, P and D
- Weather conditions resistant
- Finished surface matt and strong adhesion
- Long duration paints
- Covering, excellent workability and levelling
- It combines water sensitivity with high water vapour permeability

Recommendations for use
It is used in all interior, new, old and previously painted walls with cement base paint, cement, lime etc. Used in any kind of outdoor space, scratched plaster, plaster finishing, grout facade, etc. It is also used in coastal zones since it has high resistance to humidity and sea salt.

APPLICATION PROCEDURE

Surface preparation
The surfaces should be completely dry, clean and free from dust and elements that hinder the adhesion of the paint. Repair all cracks and damaged parts using the line products of Deutschcolor, Spachtel Massen, Spachtel Finish, etc. Then, it is recommended to apply the Macht Tiefgrund Wasser liner, diluted with 1:1 water. When applying the liner, avoid creating a film, which then creates problems connecting the paint to the support.

Product preparation
Dilute the product Alpen Silicon S47 with 10-15% water. Except for base D, it is not recommended more than 5% making sure it is fully mixed with the paint. Use a low speed electric mixer to make the mixture as uniform and complete as possible.

Application
Alpen Silicon S47 is applied by a brush or roller. The application cycle includes at least the application of two coatings of paint. The time needed between the two coatings is 2-4 hours depending on weather conditions, temperature and humidity. Clean brushes, rollers and other working tools with water before the paint dries.

Storage
36 months if stored in a dry place, away from heat sources, at a temperature between +5°C and +30°C. Protect it from frost.

Technical data	
Resin:	Acrylic copolymer
Density EN ISO 2811- 1:	1,45±0,02 gr/ml
Dry residue EN ISO 3251:	65%
Dilution degree:	10 – 15%
Viscosity:	110 ± 5 KU
Drying time between two coatings:	4 - 6 hours
VOC in the ready product (European Directive 2004/42/CE) (g/l):	≤ 10
TVOC ambient emissions, Simulation chamber ISO 16000- 9 (mg/m^3):	≤ 0.2
Covering ability EN ISO 6504- 3:	≥ 99.5% Class III
Washing resistance ISO 11998:	Class III

Notes
- In fresh concrete surfaces the product should be applied at least after 30-40 days.

Consumption: 9 - 10 m^2 / lt (two coats)

Packaging: 3lt / 10lt plastic buckets

ISOFARBEN W95

High quality acrylic paint, with high resistance to different weather conditions, thermal insulation effect and acrylic emulsion-based.

Characteristics
- Strong bonding
- It is available in 4 basis W, P, D and TR
- Acrylic paint with thermal insulation properties
- Excellent workability and levelling
- Long duration paints
- High elasticity in temperatures -20^0 to +80^0

Recommendations for use
It is used in all interior, new, old and previously painted walls with cement base paint, cement, lime etc. Used in any kind of outdoor space, plaster finishing, grout facade, etc. and also to paint the concrete surfaces treated with liner.

APPLICATION PROCEDURE

Surface preparation
The surfaces should be completely dry, clean and free from dust and elements that hinder the adhesion of the paint. Repair all cracks and damaged parts using the line products of Deutschcolor, Spachtel Massen, etc. Then, it is recommended to apply the Macht Tiefgrund Wasser liner, diluted with 1:1 water. When applying the liner, avoid creating a film, which then creates problems connecting the paint to the support.

Product preparation
Dilute the product Isofarben W95 with 10-15% water, except for D and TR basis, which are recommended not to be diluted with more than 5% water, making sure it is fully mixed with the paint. Use a low speed electric mixer to make the mixture as uniform and complete as possible.

Application
The product Isofarben W95 is applied by brush or roller. The application cycle includes at least the application of two coatings of paint. The time needed between the two coatings is 2-4 hours depending on weather conditions, temperature and humidity. Clean brushes, rollers and other working tools with water before the paint dries.

Storage
36 months if stored in a dry place, away from heat sources, at a temperature between +5°C dhe +30°C. Protect it from frost.

Technical data	
Resin:	Acrylic copolymer
Density EN ISO 2811- 1:	1,35±0,02 gr/ml
Dry residue EN ISO 3251:	60%
Dilution degree:	10 – 15%
Viscosity:	110 ± 5 KU
Drying time between two coatings:	4 - 6 hours
VOC in the ready product (European Directive 2004/42/CE) (g/l):	≤ 10
TVOC ambient emissions, Simulation chamber ISO 16000- 9 (mg/m^3):	≤ 0.2
Covering ability EN ISO 6504- 3:	≥ 99.5% Class III
Washing resistance ISO 11998:	Class III

Notes
- In fresh concrete surfaces, the product should be applied at least after 30-40 days.
- It is recommended to avoid application of the product in temperatures below 5ºC or shortly before rain.

Consumption: 9 - 10 m^2 / lt (two coats)

Packaging: 3lt / 10lt plastic buckets

DEUTSCH COLOR

SAUBER LACK

Mono component silicon based paint, designed to be used on lean concrete or previously painted concrete and steel surfaces.

Characteristics
- Elastromeric
- Weather protection properties
- Graphite removal only with water
- Service life 10-15 years
- Good levelling and covering properties
- Does not contain hazardous substances

Recommendations for use
It is used in all interior, new, old and previously painted walls with cement base paint, cement, lime etc. Used in any kind of outdoor space, scratched plaster, plaster finishing, grout facade, etc. and also to paint the concrete surfaces treated with liner for painting of service spaces such as schools, universities, train and bus stations, bridges, etc.

APPLICATION PROCEDURE

Surface preparation
The surfaces should be completely dry, clean and free from dust and elements that hinder the adhesion of the paint. Repair all cracks and damaged parts using the line products of Deutschcolor, Spachtel Massen, etc. Then, it is recommended to apply the Macht Tiefgrund Wasser liner, diluted with 1:1 water. When applying the liner, avoid creating a film, which then creates problems connecting the paint to the support.

Product preparation
Dilute the product Sauber Lack with 10-15% water, making sure it is fully mixed with the paint. Use a low speed electric mixer to make the mixture as uniform and complete as possible.

Application of product
The product sauber Lack is applied by a brush or roller. The application cycle includes at least the application of two coatings of paint. The time needed between the two coatings is 2-4 hours depending on weather conditions, temperature and humidity.

Storage
36 months if stored in a dry place, away from heat sources, at a temperature between +5°C and +30°C. Protect it from frost.

Technical data	
Resin:	Acrylic copolymer
Density EN ISO 2811- 1:	1,45±0,02 gr/ml
Dry residue EN ISO 3251:	65%
Dilution degree:	10 – 15%
Viscosity:	110 ± 5 KU
Drying time between two coatings:	4 - 6 hours
VOC in the ready product (European Directive 2004/42/CE) (g/l):	≤ 10
TVOC ambient emissions, Simulation chamber ISO 16000- 9 (mg/m^3):	≤ 0.2
Covering ability EN ISO 6504- 3:	≥ 99.5% Class III
Washing resistance ISO 11998:	Class III

Notes
- In new concrete surfaces the product is recommended to be used at least after approx. 30-40 days.

Consumption: 9 - 10 m^2 / lt (two coats)

Packaging: 3lt / 10lt plastic buckets

MACHT HAFTGRUND

High quality plastic liner with PVA-VEOVA emulsion base. Suitable for indoor and outdoor use.

Characteristics
- Easy application
- Diluted in 1:3 ratio
- Very strong adhesion and rapid drying
- High bonding and durability capacity
- High penetration and spreading rate
- Suitable for all kind of water-based paints

Recommendations for use
It is used in all interior, new, old and painted walls and ceilings, previously painted with cement base paint, lime, gypsum, etc. It is used before the paint is applied in spaces such as bedrooms, toilets, living rooms, office spaces, services etc.

APPLICATION PROCEDURE

Surface preparation
The surfaces should be completely dry, clean and free from dust and elements that hinder the adhesion of the paint. Repair all cracks and damaged parts using the line Deutschcolor, Vox 707, Glatte Spachtel, Spachtel Finish, etc.

Product preparation
Dilute the product Macht Haftgrund with water in the 1:1 ratio, ensuring that it is fully mixed with the liner. Use a low speed electric mixer to make the mixture as uniform and complete as possible.

Application
The product Macht Haftgrund is applied by a brush or roller. The application cycle includes at least the application of one coating of liner. The time needed between the liner coating and first coating is 2-4 hours depending on weather conditions, temperature and humidity. When applying the liner, avoid creating a film, which then creates problems connecting the paint to the support. Clean brushes, rollers and other working tools with water before the paint dries.

Storage
36 months if stored in a dry place, away from heat sources, at a temperature between +5°C and +30°C. Protect it from frost.

Technical data	
Resin:	PVA VEOVA Polymer
Density EN ISO 2811- 1:	1,15±0,02 gr/ml
Dry residue EN ISO 3251:	40%
Dilution degree:	100 – 300%
Viscosity:	115 ± 5 KU
Drying time between two coatings:	4 - 6 hours
VOC in the ready product (European Directive 2004/42/CE) (g/l):	≤ 10
TVOC ambient emissions, Simulation chamber ISO 16000- 9 (mg/m³):	≤ 0.2

Notes
- In fresh concrete surfaces, the product should be applied at least after 30-40 days.
- It is recommended to avoid the application of product at temperatures below 5°C or shortly before rain.

Consumption: 10 -12 m² / lt

Packaging: 3lt / 10lt plastic buckets

DEUTSCH COLOR

MACHT TIEFGRUND WASSER

Universal acrylic, water based liner, with excellent penetrating properties, providing perfect adhesion and insulation

Characteristics
- Dilution 1:1
- Colour blue
- Spread rate 250m²
- Very strong adhesion and rapid drying
- Glossy surface for all kinds of water-based paints as well as uniform in the final coating
- Easy application, high penetration and spreading rate

Recommendations for use
It is used in all interior, new, old and painted walls and ceilings, previously painted, for painting of any kind of indoor space, bedrooms, toilets, living rooms, office spaces, services etc. In addition, it is recommended to be applied on outdoor facades.

APPLICATION PROCEDURE

Surface preparation
The surfaces should be completely dry, clean and free from dust and elements that hinder the adhesion of the paint. Repair all cracks and damaged parts using the line products of Deutschcolor, Vox 707, Glatte Spachtel, Spachtel Finish, etc.

Product preparation
Dilute the product Macht Tiefgrund Wasser with water in the 1:1 ratio, ensuring that it is fully mixed with the liner. Use a low speed electric mixer to make the mixture as uniform and complete as possible.

Application
The product Macht Tiefgrund Wasser is applied by brush or roller. The application cycle includes at least the application of one coating of liner. The time needed between the liner coating and first coating is 2-4 hours depending on weather conditions, temperature and humidity. When applying the liner, avoid creating a film, which then creates problems connecting the paint to the support. Clean brushes, rollers and other working tools with water before the paint dries.

Storage
36 months if stored in a dry place, away from heat sources, at a temperature between +5°C and +30°C. Protect it from frost.

Technical data	
Resin:	Acrylic copolymer
Density EN ISO 2811- 1:	1,15±0,02 gr/ml
Dry residue EN ISO 3251:	40%
Dilution degree:	50 – 100%
Viscosity:	35 ± 5 KU
Drying time between two coatings:	4 - 6 hours
VOC in the ready product (European Directive 2004/42/CE) (g/l):	≤ 10
TVOC ambient emissions, Simulation chamber ISO 16000- 9 (mg/m³):	≤ 0.2

Notes
- In fresh concrete surfaces, the product should be applied at least after 30-40 days.
- It is recommended to avoid the application of product at temperatures below 5°C or shortly before rain.

Consumption: 15 - 20 m² / lt

Packaging: 1lt / 5lt / 10lt plastic buckets

STRABEN 80-G

Fast drying acrylic road marking paint of excellent quality

Characteristics
- Great hiding power
- Strong adhesion and quick drying
- Superior impact resistance
- Excellent durability and high reflectivity

Recommendations for use
Ideal for roads, parking areas and fields marking

APPLICATION PROCEDURE

Application method: Road marking paint applicator, roller, brush or spray gun
Diluent: Spritz Sol XT
Water demand: Can be diluted 5-10% v/v with Spritz Sol XT
Surfaces must be clean, dry and smooth, free from dust and grease.
STRABEN 80-G is applied in one or two coats.
Suggested application temperature from 10 ºC up to 35 ºC.
Clean equipment with Spritz Sol XT immediately after use.

Storage
18 months, provided the cans remain closed and in normal storing conditions.

Health, safety and environmental information
Refer to the labeling mentioned on the can. In case more information is needed, refer to the Material Safety Data Sheet.

Notes
- It is recommended to avoid the application of the product at temperatures below 5ºC or just before rain.

Consumption: 8m linear/Kg

Packaging: 30Kg drum buckets

Technical data	
Resin:	Acrylic Resin
Density:	1,60±0,05 gr/ml
Production viscosity (white):	85±5 KU 23ºC
Storage viscosity (white):	85±5 KU 23ºC
Spreading rate:	8 meter linear/lt in 15cm width of the line
Dry touch:	10-15 minutes
Dry through:	30-40 hours
Recoating time:	2-4 hours (Drying and recoating time may be prolonged under conditions of low temperature and high relative humidity)
Shades:	Available in white and traffic yellow

DEUTSCH COLOR

CREAZIONI

It is a decorative paint that gives a sand effect in silver and golden colors.

Characteristics
- Strong bonding
- Variety of structures
- Indoor application
- Application on existing paints
- Very easy to be applied
- Brilliant colours with durability

Recommendations for use
It is used in all those surfaces where a decorative effect on indoor walls is desired.

APPLICATION PROCEDURE

Surface preparation
The surfaces should be completely dry, clean and free from dust and elements that hinder the adhesion of the paint. Repair all cracks and damaged parts using the line products of Deutschcolor, Vox 707, Glatte Spachtel, Spachtel Finish, etc. Then, it is recommended to apply the Macht Tiefgrund Wasser liner, diluted with 1:1 water of Macht Haftgrund liner diluted with water in 1:3 ratio, then the final surface on which Creazioni is applied must be painted with premium quality paints such as Picasso Classic VN-35, Picasso Master, etc.

Product preparation
First, mix well and homogenize the product, then begin with the application. Use a low speed electric mixer to make a mixture as uniform and complete as possible.

Application
The product Creazioni is applied by a brush or roller. The application cycle includes at least the application of one coating of paint. Clean brushes, rollers and other working tools with water before the paint dries.

Storage
36 months if stored in a dry place, away from heat sources, at a temperature between +5°C and +30°C. Protect it from frost.

Technical data	
Resin:	Acrylic copolymer
Density EN ISO 2811- 1:	1,25±0,02 gr/ml
Dry residue EN ISO 3251:	55%
Dilution degree:	ready for use
Viscosity:	115 ± 5 KU
Drying time between two coatings:	4 - 6 hours
VOC in the ready product (European Directive 2004/42/CE) (g/l):	≤ 10
TVOC ambient emissions, Simulation chamber ISO 16000- 9 (mg/m^3):	≤ 0.2
Covering ability EN ISO 6504- 3:	≥ 98% Class II
Washing resistance ISO 11998:	Class III

Notes
- In fresh concrete surfaces, the product should be applied at least after 30-40 days.
- It is recommended to avoid the application of the product at temperatures below 5ºC.

Consumption: 10 - 12 m^2 / lt

Packaging: 1lt / 3lt plastic buckets

VENICE

Decorative grout for indoor use creating a smooth finish.

Characteristics
- Strong bonding
- Easy application
- With glossy effect
- Final smooth finish

Recommendations for use
Venice can be applied on indoor spaces such as new and plastering with cement basis, concrete surfaces, gypsum surfaces and gypsums plates, as well as on organic or mineral based layers, which are dry.

APPLICATION PROCEDURE

Surface preparation
The surfaces should be completely dry, clean and free from dust and elements that hinder the adhesion of the paint. Repair all cracks and damaged parts using the line products of Deutschcolor, Vox 707, Glatte Spachtel, Spachtel Finish, etc. Then, it is recommended to apply the Macht Tiefgrund Wasser liner, diluted with 1:1 water or a water-diluted Macht Haftgrund liner at 1:3 ratio.

Product preparation
Venice is ready for application. It is recommended to homogenize the product, mixing it with an electric mixer before use.

Application
Apply the Venice product with a metallic spatula for support filling and levelling. The product is applied in 3 coatings, 2 coatings for support adjustment and levelling, and 1 final coat to create the decorative effect and surface finishing. Before applying the final coat, it is recommended to grind the surface in order to eliminate all the application defects. Then, apply the third coating to create the finishing effect. After the application of the last coat, allow the product to dry for approx. 5-10 minutes and then finish the surface with a metal notched trough by moving it only in one direction. Where the finishing level needs to be increased, grind the final surface with a a very fine abrasive paper, M-1500 or M-2000. Clean the working tools with water before the paint dries.

Storage
36 months if stored in a dry place, away from heat sources, at a temperature between +5°C and +30°C. Protect it from frost.

Technical data	
Resin:	Acrylic copolymer
Density EN ISO 2811- 1:	1,75±0,02 gr/ml
Dry residue EN ISO 3251:	75%
Dilution degree:	Ready for use
Viscosity:	250,000 ± 5,000 MPa.s
Drying time between two coatings:	6 - 8 hours
VOC in the ready product (European Directive 2004/42/CE) (g/l):	≤ 10
TVOC ambient emissions, Simulation chamber ISO 16000- 9 (mg/m^3):	≤ 0.2
Adhesion strength:	≥ 0,8 MPa
Deflection strength:	600 N

Notes
- The paint consumption depends very much from the roughness of the surface to be painted. Depending on the application and surface, the spread rate varies from 1-1.5 Kg/m^2.

Consumption: 10 - 12 m^2 / lt

Packaging: 1lt / 5lt plastic buckets

DEUTSCH COLOR

VINTAGE ART

Acrylic and silicon resin based decorative grout with concrete effect, for indoor and outdoor use.

Characteristics
- Water resistant
- With glossy effect
- Easy application and strong bonding
- Concrete like surface

Recommendations for use
Vintage Art can be applied on indoor and outdoor spaces, such as on cement, cement-lime basis, concrete surfaces, gypsum basis and gypsum plates, old paints and coatings. It can be applied on thermal insulation systems on facility facades.

APPLICATION PROCEDURE

Surface preparation
The surfaces should be completely dry, clean and free from dust and elements that hinder the adhesion of the paint. Repair all cracks and damaged parts using the line products of Deutschcolor. Then, it is recommended to apply the Macht Tiefgrund Wasser i liner, diluted with 1:1 water or a water-diluted Macht Haftgrund liner at 1:3 ratio.

Product preparation
Vintage Art is ready for application. It is recommended to homogenize the product, mixing it with an electric mixer before use.

Application
"Formwork" effect, First apply Vintage Art with a spatula on the wall on the entire surface and then work the still fresh grout surface with a rubber decorating spatula, giving it a wooden effect. After it dries, apply the second coat of Vintage Art, always with a metallic spatula, at the same time by smoothing the surface during application. This allows to obtain the wooden effect. Total consumption in two coatings 0.8 to 1 Kg/m^2 "Washout" effect. First apply uniformly Vintage Art on all of the surface by using a spatula. After it dries, apply a second coat of Vintage Art, in the same way as the first coat. While the material is still fresh, after applying the second coat, apply the metal notched trowel horizontally or vertically by pulling the product and creating a regular surface. Total consumption in two coatings 0.8 to 1 Kg/m^2. "Fine Smoothed" effect. First, prepare the surface by using Acryl Putz TT 1 mm. After drying, apply with a trowel one coat of Vintage Art, making sure not to cover the surface completely. The storage diversity will define the level of aesthetic effect. After the product has dried completely, grind the entire surface to obtain the desired effect. Consumption for the first coat of Acryl Putz TT:
2.5 Kg/m^2. Vintage Art consumption: 0.8 to 1 Kg/m^2

Technical data	
Resin:	Acrylic copolymer
Density EN ISO 2811- 1:	1,75±0,02 gr/ml
Dry residue EN ISO 3251:	75%
Dilution degree:	Ready for use
Viscosity:	250,000 ± 5,000 MPa.s
Drying time between two coatings:	6 - 8 hours
VOC in the ready product (European Directive 2004/42/CE) (g/l):	≤ 10
TVOC ambient emissions, Simulation chamber ISO 16000- 9 (mg/m^3):	≤ 0.2
Adhesion strength:	≥ 0,8 MPa
Deflection strength:	600 N

Storage
36 months if stored in a dry place, away from heat sources, at a temperature between +5°C and +30°C. Protect it from frost.

Notes
- The paint consumption depends very much from the roughness of the surface to be painted. Depending on the application and surface, the spread rate varies from 1-1.5 Kg/m^2.

Consumption: 0,8 - 1 Kg/m^2 (two coats)

Packaging: 1lt / 5lt plastic buckets

DOREX

Decorative grout with a cracking effect.

Characteristics
- Ammonia free
- Strong bonding
- Easy application
- Dissolution effect
- Water resistant
- Good durability

Recommendations for use
Dorex can be applied indoor on new and old plastering based on hydraulic adhesives, concrete surfaces, plastering surfaces and plywood, old paints and organic, or mineral, dry, compact, absorbent and cohesive layers, conglomerates of various types that provide mineral absorption, wooden surfaces, pressed plywood ,etc., as long as the surface is treated with the appropriate base coating.

APPLICATION PROCEDURE

Surface preparation
The surfaces must be clean and dry, free from all damaged and defect materials, dust, dirt, oils and salts.

Application
Firstly, a base coat of Dorex Fondo is applied by a roller . After drying, a coat of Dorex Spacante is applied by a roller . After this product is applied, apply the first coat of Dorex product. After Dorex is applied, wait to dry to obtain the dissolution effect. The final drying of Dorex is done after 24 hours, then you can apply the varnish to achieve the desired effect. Total consumption in 2 coatings 1 - 1.5 Kg/m^2. After application, wash the tools immediately with water.

Storage
24 months, if stored in dry and interior places.

Notes
- In fresh concrete surfaces the product should be applied at least after 30-40 days.
- It is recommended to avoid the application of product at temperatures below 5ºC

Technical data	
Resin:	Acrylic copolymer
Density EN ISO 2811- 1:	1,75±0,02 gr/ml
Dry residue EN ISO 3251:	75%
Dilution degree:	Ready for use
Viscosity:	250,000 ± 5,000 MPa.s
Drying time between two coatings:	6 - 8 hours
VOC in the ready product (European Directive 2004/42/CE) (g/l):	≤ 10
TVOC ambient emissions, Simulation chamber ISO 16000- 9 (mg/m^3):	≤ 0.2
Adhesion strength:	≥ 0,8 MPa
Deflection strength:	600 N

Consumption: 0,8 - 1 Kg/m^2 (two coats)

Packaging: 1lt / 5lt plastic buckets

DEUTSCH COLOR

RUST EFFECT

Decorative paint giving the rust effect.

Characteristics
- Ammonia free
- Aesthetic effect
- Strong bonding
- Easy application
- Rust effect
- It does not shrink and does not create cracks

Recommendations for use
With different application procedures, Rust Effect can be used on pre-mixed mortars, pre-mixed plastering, new and fine plastering, existing lime plastering, gypsum plates, existing synthetic paints and minerals, various mineral absorbing conglomerates, on various surfaces, fibres, MDF, wood, in polyvinyl chloride substrates, zinc plated steel substrates, iron substrates, fibre-cement.

APPLICATION PROCEDURE

Surface preparation
The surfaces must be clean and dry, free from all damaged and defect materials, dust, dirt, oils and salts.

Application
The product can be applied by trowel or brush to fill and level the substrate. Four layers of product must be applied (2 base coatings + 2 oxidant coatings), leave 5 hours between one application and the next coating, apply varnish coating by brush, after 4 hours. Apply an oxidizing solution over the surface, passing with a sponge and a roller, to increase the rust level of the varnish. It is recommended that the surface be passed twice with the oxidant solution after creating the effect of the application, apply the final layer of the insulator to prevent oxidation, after application, wash the tools immediately with water.

Storage
24 months, if stored in dry and interior places.

Notes
- In fresh concrete surfaces the product should be applied at least after 30-40 days.
- It is recommended to avoid the application of product at temperatures below 5ºC .

Technical data	
Resin:	Acrylic copolymer
Density EN ISO 2811- 1:	1,75±0,02 gr/ml
Dry residue EN ISO 3251:	75%
Dilution degree:	Ready for use
Viscosity:	250,000 ± 5,000 MPa.s
Drying time between two coatings:	6 - 8 hours
VOC in the ready product (European Directive 2004/42/CE) (g/l):	≤ 10
TVOC ambient emissions, Simulation chamber ISO 16000- 9 (mg/m^3):	≤ 0.2
Adhesion strength:	≥ 0,8 MPa
Deflection strength:	600 N

Consumption: 0,8 - 1 Kg/m^2 (two coats)

Packaging: 1lt / 3lt plastic buckets

DC BASICS

Concentrated pigments used for the pigmentation of PVA-VEOVA based paints.

Characteristics
• Easily spread
• Strong painting capacity
• For indoor use

Recommendations for use
It is used for the pigmentation of water based paints, of the plastic lines and hydro mats only for W basis. It can be mixed with an electric mixer.

APPLICATION PROCEDURE

Product preparation
First, mix the product in its original package, then it is used in its condition or is dosed in paint for its colouring.

Storage
36 months if stored in a dry place, away from heat sources, at a temperature between +5°C and +30°C. Protect it from frost.

Packaging: 0.180Kg / 0.375Kg / 0.750Kg drums

Technical data	
Basis:	Water pigment dispersion
Form:	Liquid
Coloure:	Grey, Green, Yellow, Okra, Orange, etc...
Density EN ISO 2811- 1:	1,55±0,02 gr/ml
Dilution ratio:	Ready for use
Viscosity:	25 ± 5 KU
Reaction time:	10 – 20 minutes
VOC in the ready product (European Directive 2004/42/CE) (g/l):	≤ 50
TVOC ambient emissions, Simulation chamber ISO 16000- 9 (mg/m^3):	≤ 10

DEUTSCH COLOR

OFF FARBE

Methyl chloride water solution for old paint removal from walls, wood and metals.

Characteristics
• High methyl chloride content
• Dilutes paint and can be easily removed from the support

Recommendations for use
It is used on all those spaces or surfaces that require the elimination of old paint and application of a new one. Removal of acrylic based paints, PVA-VEOVA, as well as silicon based ones.

APPLICATION PROCEDURE

Surface preparation
The surfaces should be completely dry, clean and free from dust and elements that hinder the effect of the product.

Application
Apply the product on the surface of the paint to be removed, using a brush or a roller. After application of product on all the surface has been made, allow it to operate for approx. 15-20 minutes. Then, clean the surface with a spatula.

Storage
36 months if stored in a dry place, away from heat sources, at a temperature between +5°C and +30°C. Protect it from frost.

Packaging: 0.180Kg / 0.375Kg / 0.750Kg drums

Technical data	
Resin:	Epoxy resin
Density EN ISO 2811- 1:	Comp. A 1,15±0,02 gr/ml Comp. B 1,05±0,02 gr/ml
Dry residue EN ISO 3251:	100%
Dilution degree:	Ready for use
Viscosity:	75 ± 5 KU
Drying time between two coatings:	30 - 60 minutes
VOC in the ready product (European Directive 2004/42/CE) (g/l):	≤ 10
TVOC ambient emissions, Simulation chamber ISO 16000- 9 (mg/m^3):	≤ 0.2

REINIGER 42

Water solution for removal of mould, fungus, algae and their stains related to high humidity areas.

Characteristics
- Ready for use
- High surface penetration
- Mould and bacteria cleaning and disinfection agent

Recommendations for use
It used on all those spaces or surfaces with mould presence, such as on the tile joint nodes, mainly on toilettes, balconies, kitchens and on the silicon made surfaces, such as sinks, shower plates, etc., as well as for the elimination of mould due to moisture from paint surfaces on walls and ceilings.

APPLICATION PROCEDURE

Surface preparation
The surfaces should be completely dry, clean and free from dust and elements that hinder the effect of the product.

Product preparation
The product is ready for use.

Application
Spray the product directly on the areas with mould presence. After the surface has been sprayed with the product, allow it to operate for approx. 15-20 minutes. After this time, clean the surface with a dry cloth for mould removal. Finally, clean the sponges, microfibre cloths and other working tools with running water.

Storage
36 months if stored in a dry place, away from heat sources, at a temperature between +5°C and +30°C. Protect it from frost.

Packaging: 0.5lt / 1lt paper boxes

Technical data	
Basis:	Biocide mix
Form:	Liquid
Colour:	Yellow
Density EN ISO 2811- 1:	1,15±0,02 gr/ml
Dilution ratio:	Ready for use
Viscosity:	15 ± 5 KU
Reaction time:	10 – 20 minutes
VOC in the ready product (European Directive 2004/42/CE) (g/l):	≤ 50
TVOC ambient emissions, Simulation chamber ISO 16000- 9 (mg/m^3):	≤ 10

DEUTSCH COLOR

DEUTSCH COLOR

METAL PAINTS

METALGRUND 410

Anti-corrosion liner with very good protective properties of metal surfaces against corrosion.

Characteristics
- Easy grinding
- Corrosion protection
- Excellent coverage
- Very good filling properties
- Perfect workability and levelling
- Strong bonding and rapid drying
- Grey, reddish, blue and green colour.

Recommendations for use
It is recommended to be used as a liner on all metal surfaces that are intended for indoor and outdoor use. It is used for painting metal constructions that are intended for use in industrial environments, such as workshops, metal constructions, etc.

APPLICATION PROCEDURE

Surface preparation
Clean the surfaces of the damaged old paint without seams and the rusted parts by grinding the surface. By washing process, eliminate all the dust generated by the grinding process as well as other elements that hinder adhesion such as grease, oils, etc.

Product preparation
Dilute the product using the appropriate solvent up to the suitable application viscosity. It is recommended that the solvent mixture be mixed using an electric mixer.

Application
Application of the product MetalGrund 410 is made by an air pistol, brush or roller. First, pour the prepared product into the container. Then, with the pistol, the product is spread on the metal surface. The application is done by applying two consecutive coatings in order to achieve the best filling of the metal surface. Make sure that the appropriate thickness of the coating is obtained in order to achieve maximum metal protection.

Storage
36 months, provided that the cans are closed and in normal storage conditions.

Notes
- It is recommended to avoid the application of product in temperatures below 5ºC.

Packaging: 0.75lt / 3lt drums

Technical data	
Resin:	Alkyd resin
Density EN ISO 2811-1:	1,45±0,02 gr/ml
Dry residue EN ISO 3251:	75%
Dilution degree:	10 – 20%
Viscosity:	115 ± 5 KU
Drying time:	2 - 4 hours Also depending on environment conditions and diluent used.
Time for repainting:	6 - 8 hours Also depending on environment conditions and diluent used.
VOC in the ready product (European Directive 2004/42/CE) (g/l):	≤ 100
TVOC ambient emissions, Simulation chamber ISO 16000-9 (mg/m³):	≥ 20

METALHAFTGRUND 550

Premium quality anti corrosive liner with special zinc additives for corrosion protection of metals and rapid drying.

Characteristics
- Without lead and chromium
- Corrosion protection
- Excellent coverage
- Very good filling properties
- Perfect workability and levelling
- White, black, grey and reddish
- Strong bonding, high elasticity and rapid drying

Recommendations for use
It is recommended to be used as a liner on all metal surfaces that are intended for indoor and outdoor use. It is used for painting metal constructions that are intended for use in industrial environments, such as workshops, bridges, stairs, etc.

APPLICATION PROCEDURE

Surface preparation
Clean the surfaces of the damaged old paint without seams and the rusted parts by grinding the surface. By washing process, eliminate all the dust generated by the grinding process as well as other elements that hinder adhesion such as grease, oils, etc.

Product preparation
Initially, dilute the product using the appropriate solvent up to the suitable application viscosity. It is recommended that the solvent mixture be mixed using an electric mixer.

Application
Application of the product MetalhaftGrund 550 is made by an air pistol, brush or roller. First, pour the prepared product into the container. Then, with the pistol, the product is spread on the metal surface. The application is done by applying two consecutive coatings in order to achieve the best coverage of the metal surface. Make sure that the appropriate thickness of the coating is obtained in order to achieve maximum metal protection.

Storage
36 months, provided that the cans are closed and in normal storage conditions.

Notes
- It is recommended to avoid the application of product in temperatures below 5ºC

Packaging: 0.75lt / 3lt drums

Technical data	
Resin:	Alkyd resin
Density EN ISO 2811-1:	1,45±0,02 gr/ml
Dry residue EN ISO 3251:	75%
Dilution degree:	10 – 20%
Viscosity:	115 ± 5 KU
Drying time:	2 - 4 hours Also depending on environment conditions and diluent used.
Time for repainting:	6 - 8 hours Also depending on environment conditions and diluent used.
VOC in the ready product (European Directive 2004/42/CE) (g/l):	≤ 100
TVOC ambient emissions, Simulation chamber ISO 16000-9 (mg/m³):	≥ 20

SCHNELLGRUND

Anti corrosion liner for alkyd based metal surfaces, with high quality solvent base and very rapid drying.

Characteristics
- Without lead and chromium
- Corrosion protection
- Excellent filling properties
- Very good covering
- Black and white colour
- Perfect workability and levelling
- Strong bonding, high elasticity and rapid drying

Recommendations for use
It is recommended to be used as a liner on all metal surfaces that are intended for indoor and outdoor use. It is used for painting metal constructions that are intended for use in industrial environments, such as workshops, bridges, stairs, etc.

APPLICATION PROCEDURE

Surface preparation
Clean the surfaces of the damaged old paint without seams and the rusted parts by grinding the surface. By washing process, eliminate all the dust generated by the grinding process as well as other elements that hinder adhesion such as grease, oils, etc.

Product preparation
Dilute the product using the appropriate solvent up to the suitable application viscosity. It is recommended that the solvent mixture be mixed using an electric mixer.

Application
Application of the product SCHNELLGRUND is made by an air pistol, brush or roller. First, pour the prepared product into the container. Then, with the pistol, the product is spread on the metal surface. The application is done by applying two consecutive coatings in order to achieve the best coverage of the metal surface. Make sure that the appropriate thickness of the coating is obtained in order to achieve maximum metal protection.

Storage
36 months, provided that the cans are closed and in normal storage conditions.

Notes
- It is recommended to avoid the application of product in temperatures below 5ºC.

Packaging: 0.75lt / 3lt drums

Technical data	
Resin:	Alkyd resin
Density EN ISO 2811-1:	1,45±0,02 gr/ml
Dry residue EN ISO 3251:	75%
Dilution degree:	10 – 20%
Viscosity:	115 ± 5 KU
Drying time:	30 - 60 minutes Also depending on environment conditions and diluent used
Time for repainting:	2 - 3 hours Also depending on environment conditions and diluent used
VOC in the ready product (European Directive 2004/42/CE) (g/l):	≤ 100
TVOC ambient emissions, Simulation chamber ISO 16000-9 (mg/m³):	≥ 20

DEUTSCH COLOR

EPO GRUND S

Two component epoxy resin reinforced with polyamide, containing zinc phosphate with excellent corrosion properties.

Characteristics
- Rapid drying
- Bonding in alkyd paint
- Corrosion protection
- Excellent adhesion on metal surfaces
- High chemical and corrosion resistance (wear)
- Perfect bonding and high penetration on rusty surfaces

Recommendations for use
It is recommended to be used as a liner on all metal surfaces that are intended for indoor and outdoor use. In particular, it is used in cases where high resistance to rust is required and when metal surfaces are exposed to corrosive agents. It is used for painting metal constructions that are intended for use in industrial environments, such as workshops, bridges, stairs, metal tanks, machinery, etc.

APPLICATION PROCEDURE

Surface preparation
Clean the surfaces from the damaged paint, and without adhesion, and rusty parts by grinding the surface. By washing process, eliminate all the dust generated by the grinding process as well as other elements that hinder adhesion such as grease, oils, etc.

Product preparation
Mix the two components and then dilute the product using the appropriate solvent up to the suitable application viscosity. It is recommended that the solvent mixture be mixed using an electric mixer.

Application
Application of the product Epo Grund S is made by an air pistol, brush or roller. First, pour the prepared product into the container. Then, with the pistol, the product is spread on the metal surface. The application is done by applying two consecutive coatings in order to achieve the best coverage of the metal surface. Make sure that the appropriate thickness of the coating is obtained in order to achieve maximum metal protection.

Storage
36 months, provided that the cans are closed and in normal storage conditions.

Notes
- It is recommended to avoid the application of product in temperatures below 5ºC

Packaging: 4Kg drums

Technical data	
Resin:	Resina alchidica
Density EN ISO 2811-1:	Comp. A 1,45±0,02 gr/ml Comp. B 1,05±0,02 gr/ml
Dry residue EN ISO 3251:	70%
Mixing ratio:	3 : 1
Dilution degree:	10 – 20%
Viscosity:	115 ± 5 KU
Drying time:	1 - 2 hours Also depending on environment conditions and diluent used
Time for repainting:	2 - 4 hours Also depending on environment conditions and diluent used
VOC in the ready product (European Directive 2004/42/CE) (g/l):	≤ 100
TVOC ambient emissions, Simulation chamber ISO 16000-9 (mg/m³):	≥ 20

GRUNDPOX 2K

Two component, superior quality epoxy liner, containing zinc phosphate for surfaces exposed to aggresive environments.

Characteristics
- Rapid drying
- Excellent adhesion
- High corrosion protection
- High resistance to corrosion and salty water
- It can be used as a liner or middle coat in aggressive atmosphere environments

Recommendations for use
It is recommended to be used as a liner on all metal surfaces that are intended for indoor and outdoor use. In particular, it is used in cases where high resistance to rust is required and when metal surfaces are exposed to corrosive agents. It is used for painting metal constructions that are intended for use in industrial environments, such as workshops, bridges, stairs, metal tanks, machinery, etc. It is recommended to be used mainly in the marine industry for the painting of transport vehicles, ships and work machinery in the port areas.

APPLICATION PROCEDURE

Surface preparation
Clean the surfaces of the damaged old paint without seams and the rusted parts by grinding the surface. By washing process, eliminate with solvent all the dust generated by the grinding process as well as other elements that hinder adhesion such as grease, oils, etc.

Product preparation
Initially, mix the two components and then dilute the product using the appropriate solvent up to the suitable application viscosity. It is recommended that the solvent mixture be mixed using an electric mixer.

Application
Application of the product Grundpox 2K is made by air an pistol, brush or roller. First, pour the prepared product into the container. Then, with the pistol, the product is spread on the metal surface. The application is done by applying two consecutive coatings in order to achieve the best coverage of the metal surface. Make sure that the appropriate thickness of the coating is obtained in order to achieve maximum metal protection. Clean the working tools immediately after use, using solvent based cleaners.

Storage
36 months, provided that the cans are closed and in normal storage conditions.

Notes
- It is recommended to avoid the application of product in temperatures below 5ºC

Packaging: 3Kg drums

Technical data	
Resin:	Epoxy resin
Density EN ISO 2811-1:	Comp. A 1,45±0,02 gr/ml Comp. B 1,05±0,02 gr/ml
Dry residue EN ISO 3251:	65%
Mixing ratio:	2 : 1
Dilution degree:	10 – 20%
Viscosity:	115 ± 5 KU
Drying time:	1 - 2 hours Also depending on environment conditions and diluent used
Time for repainting:	2 - 4 hour Also depending on environment conditions and diluent used
VOC in the ready product (European Directive 2004/42/CE) (g/l):	≤ 100
TVOC ambient emissions, Simulation chamber ISO 16000-9 (mg/m³):	≥ 20

DEUTSCH COLOR

GRUNDRUB

High quality, two component epoxy liner for metal surfaces with zinc phosphate content.

Characteristics
- Rapid drying
- Excellent adhesion
- High chemical resistance to corrosion and salty water
- It can be used as a liner or middle coat in aggressive atmosphere environments

Recommendations for use
It is recommended to be used as a liner on all metal surfaces that are intended for indoor and outdoor use. In particular, it is used in cases where high resistance to rust is required and when metal surfaces are exposed to corrosive agents. It is used for painting metal constructions that are intended for use in industrial environments, such as workshops, bridges, stairs, metal tanks, machinery, etc. It is recommended to be used mainly in the marine industry for the painting of transport vehicles, ships and work machinery in the port areas.

APPLICATION PROCEDURE

Surface preparation
Clean the surfaces of the damaged old paint without seams and the rusted parts by grinding the surface. By washing process, eliminate all the dust generated by the grinding process as well as other elements that hinder adhesion such as grease, oils, etc.

Product preparation
Mix the two components and then dilute the product using the appropriate solvent up to the suitable application viscosity. It is recommended that the solvent mixture be mixed using an electric mixer.

Application
Application of the product Grundrub is made by an air pistol, brush or roller. First, pour the prepared product into the container. Then, with the pistol, the product is spread on the metal surface. The application is done by applying two consecutive coatings in order to achieve the best coverage of the metal surface. Make sure that the appropriate thickness of the coating is obtained in order to achieve maximum metal protection. Clean the working tools immediately after use, using solvent-based cleaners.

Storage
36 months, provided that the cans are closed and in normal storage conditions.

Notes
- It is recommended to avoid the application of product in temperatures below 5ºC

Packaging: 5Kg / 10Kg drums

Technical data	
Resin:	Epoxy resin
Density EN ISO 2811-1:	Comp. A 1,45±0,02 gr/ml Comp. B 1,05±0,02 gr/ml
Dry residue EN ISO 3251:	65%
Mixing ratio:	4 : 1
Dilution degree:	10 – 20%
Viscosity:	115 ± 5 KU
Drying time:	1 - 2 hours Also depending on environment conditions and diluent used
Time for repainting:	2 - 4 hour Also depending on environment conditions and diluent used
VOC in the ready product (European Directive 2004/42/CE) (g/l):	≤ 100
TVOC ambient emissions, Simulation chamber ISO 16000-9 (mg/m³):	≥ 20

LX ECONOMIC

Very economical metal paint with very good covering and levelling properties.

Characteristics
• Economical solution
• Without lead and chromium
• Good coverage
• Available in 13 colours
• Anti corrosion protection
• Good application and levelling properties

Recommendations for use
It is recommended to be used as a paint on all metal surfaces that are intended for indoor and outdoor use. It is used to paint metal constructions such as stairs, handrails, metal gates, etc. It is also used to paint wooden fences, stair handrails, etc.

APPLICATION PROCEDURE

Surface preparation
Clean the surfaces of the damaged old paint without seams and the rusted parts by grinding the surface. By washing process, eliminate all the dust generated by the grinding process as well as other elements that hinder adhesion such as grease, oils, etc. Later, apply Metal Haftgrund 410 liner. After complete drying, apply the product LX Economic liner.

Product preparation
Dilute the product using the appropriate solvent up to the suitable application viscosity. It is recommended that the solvent mixture be mixed using an electric mixer.

Application
Application of LX Economic is made by an air pistol, brush or roller. First, pour the prepared product into the container. Then, with the pistol, the product is spread on the metal surface. The application is done by applying two consecutive coatings in order to achieve the best coverage of wood or metal surface. Make sure that the appropriate thickness of the coating is obtained in order to achieve maximum protection. Clean the working tools immediately after use, using solvent based cleaners.

Storage
24 months, provided that the cans are closed and in normal storage conditions.

Technical data	
Resin:	Alkyd resin
Density EN ISO 2811-1:	1,35±0,02 gr/ml
Dry residue EN ISO 3251:	72%
Dilution degree:	10 – 20%
Viscosity:	95 ± 5 KU
Gloss:	20% in 60° angle
Drying time:	4 - 6 hours Also depending on environment conditions and diluent used
VOC in the ready product (European Directive 2004/42/CE) (g/l):	≤ 100
TVOC ambient emissions, Simulation chamber ISO 16000-9 (mg/m^3):	≥ 20

Notes
• It is recommended to avoid application in temperatures below 5ºC.

Consumption: 8 - 9m^2/lt

Packaging: 0.75lt / 3lt drums

HOLZ UND METAL 270

Metal and wood paint with very good covering properties and high gloss.

Characteristics
• Without lead and chromium
• Available in 14 colours
• Excellent coverage
• Very good workability and levelling
• Brilliant and long duration paints
• Durability to unfavourable weather conditions, atmospheric pollution

Recommendations for use
It is recommended to be used as a paint on all metal surfaces that are intended for indoor and outdoor use. It is used for painting metal constructions that are intended for use in industrial environments, such as workshops, bridges, stairs, machinery, handrails, metal gates, etc. It is used for painting the fences made of wooden lath, wooden stairs, wooden handrails, etc.

APPLICATION PROCEDURE

Surface preparation
Clean the surfaces of the damaged old paint without seams and the rusted parts by grinding the surface. By washing process, eliminate all the dust generated by the grinding process as well as other elements that hinder adhesion such as grease, oils, etc.. Later, apply MetalGrund 410 or MetalhaftGrund 550 liner. After complete drying, apply Holz Und Metal 270 liner. Wood and metal surfaces should be free from high moisture content, free from dust and elements that hinder the adhesion of the paint.

Product preparation
Dilute the product using the appropriate solvent up to the suitable application viscosity. It is recommended that the solvent mixture be mixed using an electric mixer.

Application
Application of product Holz Und Metal 270 is made by an air pistol, brush or roller. First, pour the prepared product into the container. Then, with the pistol, the product is spread on the metal surface. The application is done by applying two consecutive coatings in order to achieve the best coverage of wood or metal surface. Make sure that the appropriate thickness of the coating is obtained in order to achieve maximum protection. Clean the working tools immediately after use, using solvent-based cleaners.

Storage
36 months, provided that the cans are closed and in normal storage conditions.

Technical data	
Resin:	Alkyd resin
Density EN ISO 2811-1:	1,20 ± 0,02 gr/ml
Dry residue EN ISO 3251:	72%
Dilution degree:	10 – 20%
Viscosity:	115 ± 5 KU
Drying time:	3 - 4 hours Also depending on environment conditions and diluent used
VOC in the ready product (European Directive 2004/42/CE) (g/l):	≤ 100
TVOC ambient emissions, Simulation chamber ISO 16000-9 (mg/m^3):	≥ 20

Notes
• It is recommended to avoid application in temperatures below 5ºC

Consumption: 12- 14m^2/lt

Packaging: 0.75lt / 3lt drums

ALPENLACK 340

Premium quality metal paint providing very glossy surfaces and resistant to scratching.

Characteristics
- Available in 24 colours
- Excellent workability
- Superior shock-resistant
- Strong bonding and short drying time
- Excellent covering and levelling properties
- Does not contain chrome and lead components
- Enables full protection to corrosive agents

Recommendations for use
It is recommended to be used as a paint on all metal surfaces that are intended for indoor and outdoor use. It is used for painting metal constructions that are intended for use in industrial environments, such as workshops, bridges, stairs, machinery, handrails, metal gates, etc.

APPLICATION PROCEDURE

Surface preparation
Clean the surfaces of the damaged old paint and the rusted parts by grinding the surface. By washing process, eliminate all dust generated by the grinding process as well as other elements that hinder adhesion such as grease, oils, etc. Later, apply Metal Haftgrund 550 liner. After complete drying, apply Alpen Lack 340 liner.

Product preparation
Dilute the product using the appropriate solvent up to the suitable application viscosity. It is recommended that the solvent mixture be mixed using an electric mixer.

Application
Application of the product Alpen Lack 340 is made by air pistol, brush or roller. First, pour the prepared product into the container. Then, with the pistol, the product is spread on the metal surface. The application is done by applying two consecutive coatings in order to achieve the best coverage of the metal surface. Make sure that the appropriate thickness of the coating is obtained in order to achieve maximum metal protection. Clean the working tools immediately after use, using solvent-based cleaners.

Storage
36 months, provided that the cans are closed and in normal storage conditions.

Technical data

Resin:	Epoxy resin
Density EN ISO 2811-1:	Comp. A 1,20±0,02 gr/ml
Dry residue EN ISO 3251:	72%
Dilution degree:	10 – 20%
Viscosity:	95 ± 5 KU
Drying time:	4 - 6 hours Also depending on environment conditions and diluent used
VOC in the ready product (European Directive 2004/42/CE) (g/l):	≤ 100
TVOC ambient emissions, Simulation chamber ISO 16000-9 (mg/m³):	≥ 20

Notes
- It is recommended to avoid application of product in temperatures below 5ºC.

Consumption: 12- 14m²/lt

Packaging: 0.75lt / 3lt drums

SPEZIAL LACK

High gloss metal paint with rapid drying and high resistance to scratching.

Characteristics
- Without lead and chromium
- Perfect coverage
- Full anti corrosive protection
- Superior corrosion resistance
- Strong bonding and very rapid drying
- Available in 2 colours, white and black
- Long duration paints

Recommendations for use
It is recommended to be used as a paint on all metal surfaces that are intended for indoor and outdoor use. It is used for painting metal constructions that are intended for use in industrial environments, such as workshops, bridges, stairs, machinery, handrails, metal gates, etc.

APPLICATION PROCEDURE

Surface preparation
Clean the surfaces of the damaged old paint without seams and the rusted parts by grinding the surface. By washing process, eliminate all the dust generated by the grinding process as well as other elements that hinder adhesion such as grease, oils, etc. Later, apply SchnellGrund liner. After complete drying, apply the Spezial Lack liner.

Product preparation
Dilute the product using the appropriate solvent up to the suitable application viscosity. It is recommended that the solvent mixture be mixed using an electric mixer.

Application
Application of the product Spezial Lack is made by air pistol, brush or roller. First, pour the prepared product into the container. Then, with the pistol, the product is spread on the metal surface. The application is done by applying two consecutive coatings in order to achieve the best coverage of the metal surface. Make sure that the appropriate thickness of the coating is obtained in order to achieve maximum metal protection. Clean the working tools immediately after use, using solvent-based cleaners.

Storage
36 months, provided that the cans are closed and in normal storage conditions.

Technical data

Resin:	Alkyd resin
Density EN ISO 2811-1:	1,20±0,02 gr/ml
Dry residue EN ISO 3251:	72%
Dilution degree:	10 – 20%
Viscosity:	115 ± 5 KU
Drying time:	15 minutes Also depending on environment conditions and diluent used
VOC in the ready product (European Directive 2004/42/CE) (g/l):	≤ 100
TVOC ambient emissions, Simulation chamber ISO 16000-9 (mg/m³):	≥ 20

Notes
- It is recommended to avoid the application in temperatures below 5ºC

Consumption: 12- 14m²/lt

Packaging: 0.75lt / 3lt drums

FAUST LACK GL

Wood and metal water based paint with the innovative and ecological formula Wasser Protect.

Characteristics
- Superior whiteness
- Perfect surface
- Excellent coverage
- Perfect workability and levelling
- Contains anti yellowing additive
- It is available in 4 basis W, P, D and TR
- Can be pigmented according to DCTS system
- Very strong adhesion and rapid drying

Recommendations for use
It is recommended to be used as a paint on all metal surfaces that are intended for indoor and outdoor use. It is used for painting metal constructions that are intended for use, such as workshops stairs, handrails, metal gates, etc. It is used for painting the fences made of wooden lath, wooden stairs, wooden handrails, etc.

APPLICATION PROCEDURE

Surface preparation
Clean the surfaces of the damaged old paint without seams and the rusted parts by grinding the surface. By washing process, eliminate all the dust generated by the grinding process as well as other elements that hinder adhesion such as grease, oils, etc. Later, apply Metal Haftgrund 550 liner or Faust Primer (wood) liner. After complete drying, apply Faust Lack GL liner. Wood surfaces should be free from high moisture content, free from dust and elements that hinder the adhesion of the paint. In cases where it is applied on wooden surfaces, it is recommended to use Faust Primer.

Product preparation
Initially, dilute the product using the appropriate quantity up to the suitable application viscosity. It is recommended that the water mixture be made using an electric mixer.

Application
Application of the FAUST LACK GL is made by an air pistol, brush or roller. First, pour the prepared product into the container. Then, with the pistol, the product is spread on the metal surface. The application is done by applying two consecutive coatings in order to achieve the best coverage surface. Make sure that the appropriate thickness of the coating is obtained in order to achieve maximum metal protection. Clean the working tools with running water immediately after use.

Storage
36 months, provided that the cans are closed and in normal storage conditions.

Technical data	
Resin:	Acrylic resin
Density EN ISO 2811-1:	1,20±0,02 gr/ml
Dry residue EN ISO 3251:	62%
Dilution degree:	10 – 20%
Viscosity:	115 ± 5 KU
Gloss:	90% in 60° angle
Drying time:	2 - 3 hours Also depending on environment conditions and diluent used
VOC in the ready product (European Directive 2004/42/CE) (g/l):	≤ 10
TVOC ambient emissions, Simulation chamber ISO 16000-9 (mg/m³):	≥ 0.5

Notes
- It is recommended to avoid application in temperatures below 5ºC.
- Faust Lack GL basis are used only to produce colour nuances through the DCTS system.

Consumption: 8 - 9m²/lt

Packaging: 0.75lt drums

DEUTSCH COLOR

FAUST LACK SN

Wood and metal water based semi gloss paint, with the innovative and ecological formula Wasser Protect.

Characteristics
- Superior whiteness
- Perfect surface
- Excellent coverage
- Perfect workability and levelling
- Contains anti yellowing additive
- It is available in 4 basis W, P, D and TR
- Can be pigmented according to DCTS system
- Very strong adhesion and rapid drying

Recommendations for use
It is recommended to be used as a paint on all metal surfaces that are intended for indoor and outdoor use. It is used for painting metal constructions that are intended for use, such as workshops stairs, handrails, metal gates, etc. It is used for painting the fences made of wooden lath, wooden stairs, wooden handrails, etc.

APPLICATION PROCEDURE

Surface preparation
Clean the surfaces of the damaged old paint without seams and the rusted parts by grinding the surface. By washing process, eliminate all the dust generated by the grinding process as well as other elements that hinder adhesion such as grease, oils, etc. Later, apply Metal Haftgrund 550 liner or Faust Primer (wood) liner. After full liner drying, follows application of product Faust Lack SN. Wood surfaces should be free from high moisture content, free from dust and elements that hinder the adhesion of the paint. In cases where it is applied on wooden surfaces, it is recommended to use Faust Primer.

Product preparation
Initially, dilute the product using the appropriate quantity up to the suitable application viscosity. It is recommended that the water mixture be made using an electric mixer.

Application
Application of Faust Lack SN is made with an air pistol, brush or roller. First, pour the prepared product into the container. Then, with the pistol, the product is spread on the metal surface. The application is done by applying two consecutive coatings in order to achieve the best coverage surface. Make sure that the appropriate thickness of the coating is obtained in order to achieve maximum metal protection. Clean the working tools with running water immediately after use.

Storage
36 months, provided that the cans are closed and in normal storage conditions.

Technical data	
Resin:	Acrylic resin
Density EN ISO 2811-1:	1,20±0,02 gr/ml
Dry residue EN ISO 3251:	62%
Dilution degree:	10 – 20%
Viscosity:	115 ± 5 KU
Gloss:	30% in 60° angle
Drying time:	2 - 3 hours Also depending on environment conditions and diluent used
VOC in the ready product (European Directive 2004/42/CE) (g/l):	≤ 10
TVOC ambient emissions, Simulation chamber ISO 16000-9 (mg/m³):	≥ 0.5

Notes
- It is recommended to avoid application in temperatures below 5ºC.
- Faust Lack SN basis are used only to produce colour nuances through DCTS system.

Consumption: 8 - 9m²/lt

Packaging: 0.75lt drums

WAAGEN 10-H

Metal paint with decorative effect, with excellent resistance and high gloss.

Characteristics
- Without lead and chromium
- Available in 12 colours
- Full anti corrosive protection
- Excellent workability properties
- Strong bonding and rapid drying
- High resistance to corrosion

Recommendations for use
It is recommended to be used as a paint on all metal surfaces that are intended for indoor and outdoor use where a decorative effect is required.

Technical data	
Resin:	Alkyd resin
Density EN ISO 2811-1:	1,20±0,02 gr/ml
Dry residue EN ISO 3251:	72%
Dilution degree:	10 – 20%
Viscosity:	95 ± 5 KU
Gloss:	80% in 60° angle
Drying time:	15 minutes Also depending on environment conditions and diluent used
VOC in the ready product (European Directive 2004/42/CE) (g/l):	≤ 100
TVOC ambient emissions, Simulation chamber ISO 16000-9 (mg/m^3):	≥ 20

APPLICATION PROCEDURE

Surface preparation
Clean the surfaces of the damaged old paint without seams and the rusted parts by grinding the surface. By washing process, eliminate all the dust generated by the grinding process as well as other elements that hinder adhesion such as grease, oils, etc. Later, apply Metal Haftgrund 550 liner. After complete drying, apply the product Waagen 10-H liner.

Product preparation
Initially, dilute the product using the appropriate solvent up to the suitable application viscosity. It is recommended that the solvent mixture be mixed using an electric mixer.

Application
Application of the product Waagen 10-H is made by an air pistol, brush or roller. First, pour the prepared product into the container. Then, with the pistol, the product is spread on the metal surface. Make sure that the appropriate thickness of the coating is obtained in order to achieve maximum metal protection. Clean the working tools immediately after use, using solvent based cleaners.

Storage
36 months, provided that the cans are closed and in normal storage conditions.

Notes
- It is recommended to avoid application in temperatures below 5ºC

Consumption: 12- 14m^2/lt

Packaging: 0.75lt / 3lt drums

DEUTSCH COLOR

METAL ACCENT SILVER

Aluminium colour varnish for pipe painting, resistance to high temperatures.

Characteristics
- Without lead and chromium
- Contains metal pigments
- Perfect corrosion protection
- Very strong adhesion and rapid drying
- Resistant to high temperatures (up to 200°C)

Recommendations for use
It is recommended to be used as a paint on all metal surfaces that are intended for indoor and outdoor use that are subject to high temperatures. It is used to paint metal constructions such as chimneys, stoves, etc.

Technical data	
Resin:	Synthetic resin
Density EN ISO 2811-1:	1,02±0,02 gr/ml
Dry residue EN ISO 3251:	72%
Dilution degree:	Ready for use
Viscosity:	95 ± 5 KU
Gloss:	1 - 2 hours Also depending on environment conditions
Drying time:	≤ 100
VOC in the ready product (European Directive 2004/42/CE) (g/l):	≤ 20
TVOC ambient emissions, Simulation chamber ISO 16000-9 (mg/m^3):	≥ 0.5

APPLICATION PROCEDURE

Surface preparation
Clean the surfaces of the damaged old paint without seams and the rusted parts by grinding the surface. By washing process, eliminate all the dust generated by the grinding process as well as other elements that hinder adhesion such as grease, oils, etc. Then, apply Metal Accent Silver.

Product preparation
Before use, mix the product by shaking the package very well.

Application
Application of the product Metal Accent Silver is made by air pistol, brush or roller. First, pour the prepared product into the container. Then, with the pistol, the product is spread on the metal surface. The application is done by applying two consecutive coatings in order to achieve the best coverage surface. Make sure that the appropriate thickness of the coating is obtained in order to achieve maximum metal protection. In cases where the application is made by brush or roller, pour the product into the special container and then begin with the painting. Clean the working tools immediately after use, using solvent based cleaners.

Storage
36 months, provided that the cans are closed and in normal storage conditions.

Notes
- It is recommended to avoid application in temperatures below 5ºC.

Packaging: 0.180lt drums

EPO FARBE SV

Two-component, epoxy-based metal surface paint, available in several different colours.

Characteristics
- UV resistance
- High gloss
- Excellent adhesion
- Bonding in alkyd paint
- Bonding on rusty surfaces
- High rusty surface penetration
- High chemical resistance to corrosion and water

Recommendations for use
It is recommended to be used as a paint on all metal surfaces that are intended for indoor and outdoor use. In particular, it is used in cases where high resistance is required and when metal surfaces are exposed to corrosive agents. It is used for painting metal constructions that are intended for use in industrial environments, such as workshops, bridges, stairs, metal tanks, machinery, etc. It is recommended to be used mainly in the marine industry for the painting of transport vehicles, ships and work machinery in the port areas.

APPLICATION PROCEDURE

Surface preparation
Clean the surfaces of the damaged old paint without seams and the rusted parts by grinding the surface. By washing process, eliminate all the dust generated by the grinding process as well as other elements that hinder adhesion such as grease, oils, etc.. After application of product, treat the surface with liner.

Product preparation
Mix the two components and then dilute the product using the appropriate solvent up to the suitable application viscosity. It is recommended that the solvent mixture be mixed using an electric mixer.

Application
Application of the product Epo Farbe SV is made by air pistol, brush or roller. First, pour the prepared product into the container. Then, with the pistol, the product is spread on the metal surface. The application is done by applying two consecutive coatings in order to achieve the best coverage of the metal surface. Make sure that the appropriate thickness of the coating is obtained in order to achieve maximum metal protection. Clean the working tools immediately after use, using solvent-based cleaners.

Storage
36 months, provided that the cans are closed and in normal storage conditions.

Technical data	
Resin:	Epoxy resin
Density EN ISO 2811-1:	Comp. A 1,45±0,02 gr/ml Comp. B 1,05±0,02 gr/ml
Dry residue EN ISO 3251:	65%
Dilution degree:	4 : 1
Viscosity:	105 ± 5 KU
Drying time:	1 - 2 hours Also depending on environment conditions
VOC in the ready product (European Directive 2004/42/CE) (g/l):	≤ 100
TVOC ambient emissions, Simulation chamber ISO 16000-9 (mg/m³):	≥ 20

Notes
- It is recommended to avoid application in temperatures below 5ºC.

Packaging: 0.75lt drums

DEUTSCH COLOR

AUTO FARBE 2K

Two component epoxy-based high quality solvents varnish for metal surfaces of cars and trucks.

Characteristics
- Brilliant colours
- Rapid drying
- High chemical resistance
- Good filling and long term effect
- Perfect resistance to scratchings

Recommendations for use
It is recommended to be used mainly in the automotive industry for painting of road transport vehicles, cars, trucks, motorcycles, etc.

APPLICATION PROCEDURE

Surface preparation
Clean the surfaces of the damaged old paint by grinding the surface. By washing process, eliminate all the dust generated by the grinding process as well as other elements that hinder adhesion such as grease, oils, etc.

Product preparation
Initially, mix the two components and then dilute the product using the appropriate solvent up to the suitable application viscosity. It is recommended that the solvent mixture be mixed using an electric mixer.

Application
Application of the product Autofarbe 2K is made with an air pistol. First, pour the prepared product into the container. Then, with the pistol, the product is spread on the metal surface. The application is done by applying two consecutive coatings in order to achieve the best coverage surface. Make sure that the appropriate thickness of the coating is obtained in order to achieve maximum metal protection. Clean the working tools immediately after use, using solvent based cleaners.

Storage
36 months, provided that the cans are closed and in normal storage conditions.

Technical data	
Resin:	Epoxy resin
Density EN ISO 2811-1:	Comp. A 1,45±0,02 gr/ml Comp. B 1,05±0,02 gr/ml
Dry residue EN ISO 3251:	65%
Dilution degree:	1 : 1
Viscosity:	105 ± 5 KU
Drying time:	20 – 30 minutes Also depending on environment conditions and diluent used
VOC in the ready product (European Directive 2004/42/CE) (g/l):	≤ 100
TVOC ambient emissions, Simulation chamber ISO 16000-9 (mg/m³):	≥ 20

Notes
- It is recommended to avoid application in temperatures below 5ºC.

Packaging: 0.75lt drums

AUTO GLASSUR 2K

Two component epoxy based varnish, for metal surfaces with high quality solvent content.

Characteristics
- Mechanical resistance
- Resistance to scratchings
- High chemical resistance
- Application on metal paint
- Good filling and long term effect

Recommendations for use
It is recommended to be used mainly in the automotive industry for the painting of road transport vehicles, cars, trucks, motorcycles, etc.

APPLICATION PROCEDURE

Surface preparation
The surface must be finished with Auto Farbe 2K and completely dry.

Product preparation
Mix the two components and then dilute the product using the appropriate solvent up to the suitable application viscosity. It is recommended that the solvent mixture be mixed using an electric mixer.

Application
Application of the product Auto Glassur 2K is made with an air pistol. First, pour the prepared product into the container. Then, with the pistol, the product is spread on the metal surface. The application is done by applying two consecutive coatings in order to achieve the best coverage surface. Make sure that the appropriate thickness of the coating is obtained in order to achieve maximum paint protection. Clean the working tools immediately after use, using solvent based cleaners.

Storage
36 months, provided that the cans are closed and in normal storage conditions.

Notes
- It is recommended to avoid application in temperatures below 5ºC.

Packaging: 0.75lt drums

Technical data	
Resin:	Epoxy resin
Density EN ISO 2811-1:	Comp. A 1,15±0,02 gr/ml Comp. B 1,05±0,02 gr/ml
Dry residue EN ISO 3251:	65%
Dilution degree:	1 : 1
Viscosity:	105 ± 5 KU
Drying time:	20 – 30 minutes Also depending on environment conditions and diluent used
VOC in the ready product (European Directive 2004/42/CE) (g/l):	≤ 100
TVOC ambient emissions, Simulation chamber ISO 16000-9 (mg/m³):	≥ 20

DEUTSCH COLOR

AUTO FARBE 1K

Two-component, epoxy-based metal paint.

Characteristics
- High service life
- Application on metal surfaces
- Good covering and protection effect
- Avoids scratches
- Weather agent resistance

Recommendations for use
It is recommended to be used mainly in the automotive industry for painting of road transport vehicles, cars, trucks, motorcycles, etc.

APPLICATION PROCEDURE

Surface preparation
Clean the surfaces of the damaged old paint without seams and the rusted parts by grinding the surface. By washing process, eliminate all the dust generated by the grinding process as well as other elements that hinder adhesion such as grease, oils, etc.

Product preparation
Initially, mix the component inside the package and then dilute the product using the appropriate solvent up to the suitable application viscosity. It is recommended that the solvent mixture be mixed using an electric mixer.

Application
Application of the product Autofarbe 1K is made with an air pistol. First, pour the prepared product into the container. Then, with the pistol, the product is spread on the metal surface. The application is done by applying two consecutive coatings in order to achieve the best coverage of the metal surface. Make sure that the appropriate thickness of the coating is obtained in order to achieve maximum metal protection. Clean the working tools immediately after use, using solvent-based cleaners.

Storage
36 months, provided that the cans are closed and in normal storage conditions.

Notes
- It is recommended to avoid application in temperatures below 5ºC

Packaging: 0.75lt drums

Technical data	
Resin:	Epoxy resin
Density EN ISO 2811-1:	1,15±0,02 gr/ml
Dry residue EN ISO 3251:	65%
Dilution degree:	10 - 15%
Viscosity:	105 ± 5 KU
Drying time:	20 – 30 minutes Also depending on environment conditions and diluent used
VOC in the ready product (European Directive 2004/42/CE) (g/l):	≤ 100
TVOC ambient emissions, Simulation chamber ISO 16000-9 (mg/m³):	≥ 20

ROT GRUND

Anticorrosive primer based on red lead oxide pigment of excellent quality for metallic surfaces

Characteristics
- Great hiding power
- Great working and leveling properties
- Strong adhesion and high elasticity
- Great filling properties
- Excellent anticorrosive protection

Recommendations for use
Ideal as anticorrosive primer for alkyd based enamel paints for exterior metallic surfaces even under in strong corrosive conditions.

APPLICATION PROCEDURE

Application method: Brush, roller
Diluent: Pinsel Sol TB
Water demand: 5-15% v/v with Pinsel Sol TB
Surfaces must be clean, dry and free from grease and dirt and thoroughly rubbed down using a suitable abrasive paper. ROT GRUND is applied in one or two coats. Suggested application temperature from 10ºC up to 35ºC. Clean brushes, rollers and equipment with Pinsel Sol TB immediately after use.

Storage
18 months, provided the cans remain closed and in normal storing conditions.

Notes
- It is recommended to avoid the application of the product at temperatures below 5ºC

Packaging: 1 Kg drums

Technical data	
Resin:	Alkyd Resin
Density:	2,20±0,03 gr/ml
Production viscosity:	120±5 KU 23ºC
Storage viscosity:	120±5 KU 23ºC
Spreading rate:	4-6m²/Kg for each coat on previously prepared surfaces
Dry touch:	60±10 minutes
Dry through:	4±½ hours
Recoating time:	16 hours (Drying and recoating time may be prolonged under conditions of low temperature and high relative humidity)

DEUTSCH COLOR

GRUNDKYD

Metallic alkyd-based liner for surfaces exposed to hard weather conditions.

Characteristics
- Rapid drying
- High flexibility
- Chemical resistance
- Excellent adhesion
- Resistant to salt water
- Resistance to corrosion (consumption)

Recommendations for use
It is recommended to be used mainly in the marine industry for painting of transport vehicles such as ships, working machinery in port areas as well as in air transport vehicles.

APPLICATION PROCEDURE

Surface preparation
Clean the surfaces of the damaged old paint without seams and the rusted parts by grinding the surface. Eliminate with an air scour all the dust generated by the grinding process, as well as other elements that hinder the adhesion, such as grease, oils, etc.

Product preparation
Dilute the product using the appropriate quantity up to the suitable application viscosity. It is recommended that the solvent mixture be mixed using an electric mixer.

Application
Application of the product Grundkyd is made with an air pistol. First, pour the prepared product into the container. Then, with the pistol, the product is spread on the metal surface. The application is done by applying two consecutive coatings in order to achieve the best coverage of the metal surface. Make sure that the appropriate thickness of the coating is obtained in order to achieve maximum metal protection. Clean the working tools immediately after use, using solvent-based cleaners.

Storage
36 months, provided that the cans are closed and in normal storage conditions.

Notes
- It is recommended to avoid application of product in temperatures below 5ºC.

Packaging: 0.75lt drums

Technical data	
Resin:	Alkyd resin
Density EN ISO 2811-1:	1,20±0,02 gr/ml
Dry residue EN ISO 3251:	72%
Dilution ratio:	10 - 20%
Viscosity:	95 ± 5 KU
Drying time:	20 – 30 minutes Also depending on environment conditions and diluent used
VOC in the ready product (European Directive 2004/42/CE) (g/l):	≤ 100
TVOC ambient emissions, Simulation chamber ISO 16000-9 (mg/m³):	≥ 20

MARDELUX 2K

Two component acrylic paint for surfaces exposed to hard weather conditions.

Characteristics
- Rapid drying
- Perfect gloss
- High flexibility
- Chemical resistance
- Excellent adhesion
- With long term glossy effect
- Resistant to salt water
- High resistance to corrosion (consumption)

Recommendations for use
It is recommended to be used mainly in the automotive industry for painting of air and marine transport vehicles.

APPLICATION PROCEDURE

Surface preparation
Paint the surface with the Grundkyd liner, before applying the product. It must be completely dry, free from dust and other elements that hinder the adhesion.

Product preparation
Initially, dilute the product using the appropriate quantity of the solvent up to the suitable application viscosity. Mix the solvent mixture with an electric mixer.

Application
Application of the product Mardelux 2K is made with an air pistol. Pour the prepared product into the container. Then, with the pistol, the product is spread on the surface. The application is done by applying two consecutive coatings in order to achieve the best result. Make sure that the appropriate thickness of the coating is obtained in order to achieve maximum metal protection. Clean the working tools immediately after use, using solvent-based cleaners.

Storage
36 months, provided that the cans are closed and in normal storage conditions.

Notes
- It is recommended to avoid application in temperatures below 5ºC

Packaging: 0.75lt / 3lt drums

Technical data	
Resin:	Resina epossidica
Density EN ISO 2811-1:	Comp. A 1,45±0,02 gr/ml Comp. B 1,05±0,02 gr/ml
Dry residue EN ISO 3251:	72%
Mixing ratio:	2 : 1
Viscosity:	105 ± 5 KU
Drying time:	20 – 30 minutes Also depending on environment conditions and diluent used
VOC in the ready product (European Directive 2004/42/CE) (g/l):	≤ 100
TVOC ambient emissions, Simulation chamber ISO 16000-9 (mg/m³):	≥ 20

DEUTSCH COLOR

MARDELACK

One component metal acrylic paint available in a variety of high quality colours.

Characteristics
- Rapid drying
- High flexibility
- Chemical resistance
- Excellent adhesion
- Resistant to salt water
- Resistance to corrosion (consumption)

Recommendations for use
Mardelack is an acrylic, aliphatic - acrylic polyurethane mono component coating, with chemical curing for metal surfaces such as bridges, tanks, tankers, metal constructions, etc.

APPLICATION PROCEDURE

Surface preparation
Paint the surface with the Grundkyd liner, before applying the product. It must be completely dry, free from dust and other elements that hinder the adhesion.

Product preparation
Initially, dilute the product using the appropriate quantity of the solvent up to the suitable application viscosity. Mix the solvent mixture with an electric mixer.

Application
Application of the product Mardelack is made with an air pistol. First, pour the prepared product into the container. Then, with the pistol, the product is spread on the metal surface. The application is done by applying two consecutive coatings in order to achieve the best coverage surface. Make sure that the appropriate thickness of the coating is obtained in order to achieve maximum metal protection. Clean the working tools immediately after use, using solvent-based cleaners.

Storage
36 months, provided that the cans are closed and in normal storage conditions.

Notes
- It is recommended to avoid application in temperatures below 5ºC.

Packaging: 0.75lt / 3lt drums

Technical data	
Resin:	Acrylic resin
Density EN ISO 2811-1:	1,25±0,02 gr/ml
Dry residue EN ISO 3251:	65%
Dilution ratio:	10 - 15%
Viscosity:	105 ± 5 KU
Drying time:	20 – 30 minutes Also depending on environment conditions and diluent used
VOC in the ready product (European Directive 2004/42/CE) (g/l):	≤ 100
TVOC ambient emissions, Simulation chamber ISO 16000-9 (mg/m³):	≥ 20

600°C PLUS

Metallic paint, resistant to high temperatures

Characteristics
- Strong adhesion
- Available in 20 colours
- Very strong layer
- Resistant to high temperatures up to 600°C

Recommendations for use
Suitable for metal surfaces, such as stoves, chimneys, car masters and industrial applications where high temperature resistance is required.

APPLICATION PROCEDURE

Surface preparation
Clean the surfaces of the damaged old paint without seams and the rusted parts by grinding the surface. Eliminate with an air scour all the dust generated by the grinding process, as well as other elements that hinder the adhesion, such as grease, oils, etc.

Product preparation
Before use, mix the product by shaking the package very well.

Application
Application of the product 600°C PLUS is made with an air pistol. First, pour the prepared product into the container. Then, with the pistol, the product is spread on the metal surface. The application is done by applying two consecutive coatings in order to achieve the best result. Make sure that the appropriate thickness of the coating is obtained in order to achieve maximum metal protection. Clean the working tools immediately after use, using solvent-based cleaners.

Storage
36 months, provided that the cans are closed and in normal storage conditions.

Notes
- It is recommended to avoid application in temperatures below 5°C
- The product is applied without a liner.

Packaging: 0.75lt / 3lt drums

Technical data	
Resin:	Silicon copolymer
Density EN ISO 2811-1:	1,05±0,02 gr/ml
Spread rate	Up to 15m²/l per painting
Drying time:	10 - 20 minutes Drying and time and re-painting time can be prolonged on relatively low temperatures and high humidity values
pH:	9±1
Colour:	Silver

DEUTSCH COLOR

WHITE SPIRIT

Alkyd products solvent with normal drying

Characteristics
- Colourless solvents
- Insoluble in water
- Ideal for enamel paints
- Resistant to yellowing
- Improves flow and application
- Can be used for tool cleaning

Recommendations for use
White Spirit is a colourless solvent for the dilution of decorative paints and enamels applied by brush, air pistol or roller.

Storage
24 months, provided that the cans are closed and in normal storage conditions.

Notes
- Protect it from frost, do not apply in temperatures below 5°C.

Packaging: 0.4lt / 0.75lt drum bottles

Technical data	
Density:	0,55±0,02 gr/ml
Production viscosity:	10±5 KU 23°C
Storage viscosity:	10±5 KU 23°C
Colour:	Transparent

PINSEL SOL TB

Clean solvent with normal drying.

Characteristics
- Colourless solvents
- Normal drying
- Insoluble in water
- Ideal for enamel paints
- Resistant to yellowing
- Improves flow and application
- Can be used for tool cleaning

Technical data

Density:	0,85±0,02 gr/ml
Production viscosity:	10±5 KU 23ºC
Storage viscosity:	10±5 KU 23ºC
Colour:	Transparent

Recommendations for use
Pinsel Sol TB is a colourless solvent for the dilution of decorative paints and enamels applied by brush, air pistol or roller.

Storage
24 months, provided that the cans are closed and in normal storage conditions.

Notes
- Protect it from frost, do not apply in temperatures below 5°C.

Packaging: 0.4lt / 0.75lt drum bottles

DEUTSCH COLOR

SPRITZ SOL NITRO

Rapid dry solvents

Characteristics
- Colourless solvents
- Rapid drying
- Insoluble in water
- Ideal for enamel paints
- Resistant to yellowing
- Improves flow and application
- Can be used for tool cleaning

Technical data

Density:	0,85±0,02 gr/ml
Production viscosity:	10±5 KU 23ºC
Storage viscosity:	10±5 KU 23ºC
Colour:	Transparent

Recommendations for use
Spritz Sol Nitro is a colourless solvent for the dilution of decorative paints and enamels applied by brush, air pistol or roller.

Storage
24 months, provided that the cans are closed and in normal storage conditions.

Notes
- Protect it from frost, do not apply in temperatures below 5°C.

Packaging: 1lt / 5lt / 25lt drum bottles

SPRITZ SOL XT

Clean solvent with rapid drying

Characteristics
- Colourless solvents
- Rapid drying
- Insoluble in water
- Ideal for enamel paints
- Resistant to yellowing
- Improves flow and application
- Can be used for tool cleaning

Recommendations for use
Spritz Sol XTS is a colourless solvent for the dilution of decorative paints and enamels applied by brush, air pistol or roller.

Storage
24 months, provided that the cans are closed and in normal storage conditions.

Notes
- Protect it from frost, do not apply in temperatures below 5°C.

Packaging: 1lt drum bottles

Technical data	
Density:	0,55±0,02 gr/ml
Production viscosity:	10±5 KU 23ºC
Storage viscosity:	10±5 KU 23ºC
Colour:	Transparent

PRODUCT SUITABLE FOR WOOD

HOLZZID

Water-based, moth proofing agent, perfect for wood protection

Characteristics
- Easy application
- Blue colour
- High penetration
- Penetrates into the wood and protects against fungi, blue stains and mould

Recommendations for use
Ideal for wood surfaces such as doors, windows, frames, cupboards, garden furniture, shelters, trusses and beams, fences, etc.

APPLICATION PROCEDURE

Surface preparation
Clean the surfaces of the damaged old paint without bonding and the disconnected parts by grinding the wooden surface. Eliminate with an air scour all the dust generated by the grinding process, as well as other elements that hinder the adhesion, such as grease, oils, etc.

Product preparation
Mix the product by shaking the package very well.

Application
Application of product HolzZid is made by brush or roller. First, pour the prepared product into the container. Then, with the brush or roller, the product is spread on the wooden surface. The application is done by applying two consecutive coatings in order to achieve the best results. Make sure that the appropriate quantity is absorbed in order to achieve maximum protection. Clean the working tools with running water immediately after use.

Storage
36 months, provided that the cans are closed and in normal storage conditions.

Notes
- It is recommended to avoid application in temperatures below 5ºC

Packaging: 1lt plastic bottles

Technical data	
Resin:	Acrylic resin
Density EN ISO 2811- 1:	1,05±0,02 gr/ml
Dry residue EN ISO 3251:	30%
Dilution degree:	10 – 20%
Viscosity:	45 ± 5 KU
Drying time:	30 – 60 minutes depending on environment conditions
Time for repainting:	2 - 3 hours depending on environment conditions
VOC in the ready product (European Directive 2004/42/CE) (g/l):	≤ 10
TVOC ambient emissions, Simulation chamber ISO 16000- 9 (mg/m^3):	≤ 0.2

DEUTSCH COLOR

HOLZ LASUR

Solvent-based, moth proofing agent for protecting and coloring the wood

Characteristics
- Unleaded and without chrome
- Available in 20 colours
- Very strong adhesion and rapid drying
- Provides a nice wood optic
- Long duration paints
- Elastic and resistant to cracks, raised parts and indentations
- It penetrates the wood and protects it from fungus, blue stains and moth

Recommendations for use
Ideal for wood surfaces such as doors, windows, frames, cupboards, garden furniture, shelters, trusses and beams, fences, etc.

APPLICATION PROCEDURE

Surface preparation
Clean the surfaces of the damaged old paint without bonding and the disconnected parts by grinding the wooden surface. Eliminate with an air scour all the dust generated by the grinding process, as well as other elements that hinder the adhesion, such as grease, oils, etc.

Product preparation
Mix the product by shaking the package very well.

Application
Application of the product Holz Lasur is made by an air pistol, brush or roller. First, pour the prepared product into the container. Then, with the pistol, brush or roller, the product is spread on the wooden surface. The application is done by applying two consecutive coatings in order to achieve the best result. Make sure that the appropriate quantity is absorbed in order to achieve maximum protection. Clean the working tools immediately after use, using solvent based cleaners.

Storage
36 months, provided that the cans are closed and in normal storage conditions.

Notes
- It is recommended to avoid application in temperatures below 5ºC.

Packaging: 0.75lt / 3lt drums

Technical data	
Resin:	Acrylic resin
Density EN ISO 2811- 1:	0,90±0,02 gr/ml
Dry residue EN ISO 3251:	35%
Dilution degree:	10 – 15%
Viscosity:	45 ± 5 KU
Drying time:	30 – 60 minutes depending on environment conditions
Time for repainting:	30 – 60 minutes depending on environment conditions
VOC in the ready product (European Directive 2004/42/CE) (g/l):	≤ 10
TVOC ambient emissions, Simulation chamber ISO 16000- 9 (mg/m^3):	≤ 0.2

TERMIDOL

Industrial, water based moth proofing agent with high concentration

Characteristics
• Environmentally friendly
• Protection for structural wood
• Long term protection from mould and blue stains
• Prevents water penetration
• Long term protection from micro-organisms and insects
• For industrial use through saturation or soaking
• It is characterized by a Mikron technology formula for deep penetration

Recommendations for use
It is used as a protection for structural wood, for interior and exterior constructions such as tiles, ceilings, coatings, fences, roofs, pergolas etc. For the protection of MDF, plywood and other wood products that are used for the construction of windows, doors, wooden frames and all wooden constructions.

APPLICATION PROCEDURE

Surface preparation
Clean the dust from the surfaces with an air pistol.

Product preparation
Mix the product by shaking the package very well.

Application
The product is applied to water-filled tanks in a ratio of 1: 300. Then plunge the wood for 10 minutes to obtain the required result. Once the process has finished, the tank can be cleaned with running water.

Storage
36 months, provided that the packaging is closed and in normal storage conditions.

Notes
• It is recommended to avoid application in temperatures below 5ºC.

Packaging: 10lt plastic bottles

Technical data	
Resin:	Acrylic copolymer
Form:	Liquid
Density:	1,05±0,02 gr/ml
Dilution:	1l Thermidol : 300 l water
Colour:	Green

DEUTSCH COLOR

HOLZ PROTEKT W20

Water-based, moth proofing agent for protecting and coloring the wood

Characteristics
• Odourless
• High penetration
• Available in 16 colors
• Perfect protection from fungus and wood worms

Recommendations for use
Ideal for wood surfaces such as doors, windows, frames, cupboards, garden furniture, shelters, trusses and beams, fences, etc.

APPLICATION PROCEDURE

Surface preparation
Clean the surfaces of the damaged old paint without bonding and the disconnected parts by grinding the wooden surface. Eliminate with an air scour all the dust generated by the grinding process, as well as other elements that hinder the adhesion, such as grease, oils, etc.

Product preparation
Initially, dilute the product using the appropriate amount of water up to the suitable application viscosity.

Application
Application of the product Holz Protect W20 is made with an air pistol, brush or roller. First, pour the prepared product into the container. Then, with the pistol, brush or roller, the product is spread on the wooden surface. The application is done by applying two consecutive coatings in order to achieve the best results. Make sure that the appropriate quantity is absorbed in order to achieve maximum protection. Clean the working tools with running water immediately after use.

Storage
36 months, provided that the cans are closed and in normal storage conditions.

Notes
• It is recommended to avoid application of product in temperatures below 5ºC.

Packaging: 0.75lt drums

Technical data	
Resin:	Acrylic resin
Density EN ISO 2811- 1:	1,05±0,02 gr/ml
Dry residue EN ISO 3251:	35%
Dilution degree:	10 – 15%
Viscosity:	45 ± 5 KU
Drying time:	30 – 60 minutes depending on environment conditions
Time for repainting:	2 - 3 hours depending on environment conditions
VOC in the ready product (European Directive 2004/42/CE) (g/l):	≤ 10
TVOC ambient emissions, Simulation chamber ISO 16000- 9 (mg/m³):	≤ 0.2

EEMS W30 GLOSS

Water-based wood varnish that provides a glossy surface for outdoor and indoor use.

Characteristics
- UV protection
- High flexibility
- With glossy effect
- Water resistant and good durability
- Indoor and outdoor wood surfaces

Recommendations for use
Ideal for wood surfaces such as doors, windows, frames, cupboards, garden furniture, shelters, trusses and beams, fences, etc.

APPLICATION PROCEDURE

Surface preparation
The surface should be finished with the HolzZid product and thoroughly cleaned from dust and other agents that prevent the adhesion of wood varnish.

Product preparation
Initially, dilute the product using the appropriate amount of water up to the suitable application viscosity.

Application
Application of the product EEMS W30 Gloss is made by brush or roller. First, pour the prepared product into the container. Then, with the brush or roller, the product is spread on the wooden surface. The application is done by applying two consecutive coatings in order to achieve the results. Make sure that the appropriate quantity is absorbed in order to achieve maximum protection. Clean the working tools with running water immediately after use.

Storage
36 months, provided that the cans are closed and in normal storage conditions.

Notes
- It is recommended to avoid application in temperatures below 5ºC.

Packaging: 0.75lt drums

Technical data	
Resin:	Acrylic resin
Density EN ISO 2811- 1:	1,05±0,02 gr/ml
Dry residue EN ISO 3251:	35%
Dilution degree:	10 – 20%
Viscosity:	45 ± 5 KU
Drying time:	30 – 60 minutes depending on environment conditions
Time for repainting:	2 - 3 hours depending on environment conditions
VOC in the ready product (European Directive 2004/42/CE) (g/l):	≤ 10
TVOC ambient emissions, Simulation chamber ISO 16000- 9 (mg/m^3):	≤ 0.2

EEMS W30 SATIN

Water based wood varnish with semi gloss for indoor and outdoor use

Characteristics
- Satin effect
- UV protection
- High flexibility
- Water resistant and good durability
- Indoor and outdoor wood surfaces

Recommendations for use
Ideal for wood surfaces such as doors, windows, frames, cupboards, garden furniture, shelters, trusses and beams, fences, etc.

APPLICATION PROCEDURE

Surface preparation
The surface should be finished with the HolzZid product and thoroughly cleaned from dust and other agents that prevent the adhesion of wood varnish.

Product preparation
Initially, dilute the product using the appropriate amount of water up to the suitable application viscosity.

Application
Application of the product EEMS W30 Satin is made by brush or roller. First, pour the prepared product into the container. Then, with the brush or roller, the product is spread on the wooden surface. The application is done by applying two consecutive coatings in order to achieve the best results. Make sure that the appropriate quantity is absorbed in order to achieve maximum protection. Clean the working tools with running water immediately after use.

Storage
36 months, provided that the cans are closed and in normal storage conditions.

Notes
- It is recommended to avoid application in temperatures below 5ºC.

Packaging: 0.75lt drums

Technical data	
Resin:	Acrylic resin
Density EN ISO 2811- 1:	1,05±0,02 gr/ml
Dry residue EN ISO 3251:	35%
Dilution degree:	10 – 20%
Viscosity:	45 ± 5 KU
Drying time:	30 – 60 minutes depending on environment conditions
Time for repainting:	2 - 3 hours depending on environment conditions
VOC in the ready product (European Directive 2004/42/CE) (g/l):	≤ 10
TVOC ambient emissions, Simulation chamber ISO 16000- 9 (mg/m^3):	≤ 0.2

HOLZ KITT

Water based acrylic grout for wood repair

Characteristics
- Available in 17 colours
- Strong adhesion and without shrinks
- Does not stain the wood surface
- Dries rapidly and resists humidity
- Creates a strong, durable and finished surface

Recommendations for use
Suitable for filling and covering imperfections on veneers. Seals gaps and joints on melamine and hardwood floors, lacquered surfaces, chipboard and Formica, MDF etc. Excellent for repairs in wooden furniture, wooden doors and ceiling panels.

Application
Diluent: Water
Application: Especially suitable for repairing holes, cracks and damages in wood constructions. It can be applied more than once, if it is necessary. After curing can be filed, pierced, sawn and worked with sandpaper.

Protect from frost and do not apply in temperatures below 5° C. After use, close the cap hermetically. Clean tools with water after use.

Storage
36 months, provided that the cans are closed and in normal storage conditions.

Notes
- It is recommended to avoid application in temperatures below 5ºC

Packaging: 0.2Kg plastic buckets

Technical data	
Resin:	Acrylic copolymer
Density EN ISO 2811- 1:	1,05±0,02 gr/ml
Dry residue EN ISO 3251:	70%
Dilution degree:	Ready for use
Colour:	17 natural colours
Tensile adhesion strength in concrete:	≥ 0,8 N/mm^2
Consumption:	1Kg/m^2
Drying time between two coatings:	2 – 4 minutes Depending on environmental conditions The first layer should be completely dry before application of the second layer
Drying time for grinding:	24 hours
Deflection strength:	≥ 400 N

DEUTSCH COLOR

HOLZ VORLACK 180

High quality alkyd-based wood surface liner for pore filling and unifying.

Characteristics
- Is easily sanded
- Without plumbum and chrome
- Perfect filling properties
- Excellent coverage
- Available in white colour
- Strong bonding and rapid drying
- Very good workability and levelling

Recommendations for use
It is recommended to be used as a liner on all wood surfaces that are intended for indoor and outdoor use. It is used as a liner on wood surfaces before the latter is painted with Holz Und Metal 270.

APPLICATION PROCEDURE

Surface preparation
Clean the surfaces of the damaged old paint and the rusted parts by grinding the surface. Eliminate with an air scour all the dust generated by the grinding process, as well as other elements that hinder the adhesion, such as grease, oils, etc.

Product preparation
Initially, dilute the product using the appropriate solvent up to the suitable application viscosity. It is recommended to mix with an electric mixer.

Application
Application of the product Holz Vorlack 180 is made by an air pistol, brush or roller. First, pour the prepared product into the container. Then the product is spread onto the wood surface using the aforementioned tools. The application is done by applying two consecutive coatings in order to achieve the best coverage of the wood surface. Make sure that the appropriate thickness of the coating is obtained in order to achieve maximum wood protection. Clean the working tools immediately after use, using solvent based cleaners.

Storage
36 months, provided that the cans are closed and in normal storage conditions.

Notes
- It is recommended to avoid application in temperatures below 5ºC.

Packaging: 0.75lt / 3lt drums

Technical data	
Resin:	Alkyd resin
Density EN ISO 2811- 1:	1,45±0,02 gr/ml
Dry residue EN ISO 3251:	75%
Dilution degree:	10 – 20%
Viscosity:	115 ± 5 KU
Drying time:	2 – 4 hours depending on environment conditions
Time for repainting:	6 – 8 hours depending on environment conditions
VOC in the ready product (European Directive 2004/42/CE) (g/l):	≤ 100
TVOC ambient emissions, Simulation chamber ISO 16000- 9 (mg/m^3):	≤ 20

FAUST PRIMER

Premium quality, water based wood liner for wood pore filling.

Characteristics
- Is easily sanded
- Excellent coverage
- Very good workability and levelling
- Very strong adhesion and rapid drying
- Ideal surface for Faust Lack GL and SN

Recommendations for use
It is recommended to be used as a liner on all wood surfaces that are intended for indoor and outdoor use. It is used as a liner on wood surfaces before the latter is painted with the paint Faust Lack GL and SN.

APPLICATION PROCEDURE

Surface preparation
Clean the surfaces of the damaged old paint and the rusted parts by grinding the surface. Eliminate with an air scour all the dust generated by the grinding process, as well as other elements that hinder the adhesion, such as grease, oils, etc.

Product preparation
Initially, dilute the product using the appropriate amount of water up to the suitable application viscosity.

Application
Application of the product Faust Primer is made by an air pistol, brush or roller. First, pour the prepared product into the container. Then the product is spread onto the wood surface using the aforementioned tools. The application is done by applying two consecutive coatings in order to achieve the best coverage of the wood surface. Make sure that the appropriate thickness of the coating is obtained in order to achieve maximum wood protection. Clean the working tools with running water immediately after use.

Storage
36 months, provided that the cans are closed and in normal storage conditions.

Notes
- It is recommended to avoid application in temperatures below 5ºC.

Consumption: 300gr/lt

Packaging: 0.75lt drums

Technical data	
Resin:	Alkyd resin
Density EN ISO 2811- 1:	1,45±0,02 gr/ml
Dry residue EN ISO 3251:	55%
Dilution degree:	10 – 20%
Viscosity:	115 ± 5 KU
Drying time:	2 – 4 hours depending on environment conditions
Time for repainting:	6 – 8 hours depending on environment conditions
VOC in the ready product (European Directive 2004/42/CE) (g/l):	≤ 100
TVOC ambient emissions, Simulation chamber ISO 16000- 9 (mg/m³):	≤ 20

DEUTSCH COLOR

WOOD COLORS

Water paints

Characteristics
- Low levels of aroma
- Good covering properties
- Maximum level durability
- Relatively high resistance to scratching
- High resistance to weather conditions
- Penetrates deeply on the wood surface
- Adhesion property and relatively short drying time

Recommendations for use
This product is ideal for indoor use in all wood products, including: furniture, cabinets, doors, floors and various coatings of these products.

APPLICATION PROCEDURE

Surface preparation
Clean the surfaces of the damaged old paint without bonding and the disconnected parts by grinding the wooden surface. Eliminate with an air scour all the dust generated by the grinding process, as well as other elements that hinder the adhesion, such as grease, oils, etc.

Product preparation
Initially, dilute the product using the appropriate amount of water up to the suitable application viscosity.

Application
Application of the product Wood Color is made by an air pistol, brush or roller. First, pour the prepared product into the container. Then, with the pistol, brush or roller, the product is spread on the wooden surface. The application is done by applying two consecutive coatings in order to achieve the best filling of the wooden surface. Make sure that the appropriate quantity is absorbed in order to achieve maximum protection. Clean the working tools with running water immediately after use.

Storage
36 months, provided that the cans are closed and in normal storage conditions.

Notes
- It is recommended to avoid application in temperatures below 5ºC.

Packaging: 1lt plastic bottles

Technical data	
Resin:	Acrylic resin
Pigment type:	Micro dimension organic pigments
Weight:	1- 1.02 Kg/ml (per litre)
Solids:	13.5- 15.5 % (in weight) 12.8- 14.8 % (in Volume)
Dilution:	1:1 o 1:3 with water

LUXUR

Solvent based wood paint that gives metallic effect.

Characteristics
• Low levels of aroma
• Good covering properties
• Maximum level durability
• Relatively high resistance to scratching
• High resistance to weather conditions
• Penetrates deeply on the wood surface
• Adhesion property and relatively short drying time

Recommendations for use
This product is ideal for indoor use in all wood products, including: furniture, cabinets, doors, floors and various coatings of these products.

APPLICATION PROCEDURE

Surface preparation
Clean the surfaces of the damaged old paint without bonding and the disconnected parts by grinding the wooden surface. Eliminate with an air scour all the dust generated by the grinding process, as well as other elements that hinder the adhesion, such as grease, oils, etc.

Product preparation
The product is ready for use.

Application
Application of the product Luxur is made by an air pistol, brush or roller. First, pour the prepared product into the container. Then, with the pistol, brush or roller, the product is spread on the wooden surface. The application is done by applying two consecutive coatings in order to achieve the best filling of the wooden surface. Make sure that the appropriate quantity is absorbed in order to achieve maximum protection. Clean the working tools with solvent immediately after use.

Storage
36 months, provided that the cans are closed and in normal storage conditions.

Notes
• It is recommended to avoid application in temperatures below 5ºC.

Packaging: 1lt drums

Technical data	
Resin:	Acrylic resin
Pigment type:	Micro dimension organic pigments
Weight:	1-1.02 Kg/ml (per litre)
Solids:	13.5-15.5 % (in weight) 12.8-14.8 % (in volume)
Dilution:	Ready for use

DEUTSCH COLOR

MÖBELÖL

Natural linen oil for protecting wood surfaces, by highlighting colours.

Characteristics
• Water resistant
• Highlights natural colour and quality of the wood
• Penetrates into the wood by filling the pores without forming a film

Recommendations for use
Ideal for maintenance and refreshment of solid wood such as teak, mahogany, iroko.

APPLICATION PROCEDURE

Surface preparation
Clean the surfaces of the damaged old paint without bonding and the disconnected parts by grinding the wooden surface. Eliminate with an air scour all the dust generated by the grinding process, as well as other elements that hinder the adhesion, such as grease, oils, etc.

Product preparation
Initially, dilute the product using the appropriate solvent up to the suitable product viscosity.

Application
Application of the product Möbelöl is made with an air pistol, brush or roller. First, pour the prepared product into the container. Then, the product is spread on the wooden surface. Apply the first coat of the product and then remove excess in order to achieve the best filling of the wooden surface. Make sure that the appropriate quantity is absorbed in order to achieve maximum protection. Clean the working tools immediately after use, using solvent-based cleaners.

Storage
36 months, provided that the cans are closed and in normal storage conditions.

Notes
• It is recommended to avoid application in temperatures below 5ºC.

Packaging: 0.75lt drums

Technical data	
Resin:	Mixture of natural modified oils
Density:	0,95±0,05 gr/ml
Spread rate:	Approx. 12m²/l on soft wood or 15m²/l on strong wood
Drying:	60±10 minutes
Complete drying:	3±½ hours
Repainting time:	16 hours Drying and time and re-painting time can be prolonged on relatively low temperatures and high humidity values
Colours:	Transparent

COMPACT LACK GL

Transparent and coloured varnish for wood surfaces that gives the effect of gloss, for interior use.

Characteristics
- Available in 8 colours
- Elastic and strong surface
- Protects wood natural optic
- Excellent workability and levelling
- Very strong adhesion and rapid drying
- Long duration paints

Recommendations for use
Ideal for wood surfaces such as doors, windows, frames, trusses and beams, etc.

APPLICATION PROCEDURE

Surface preparation
Clean the surfaces of the damaged old paint without bonding and the disconnected parts by grinding the wooden surface. Eliminate with an air scour all the dust generated by the grinding process, as well as other elements that hinder the adhesion, such as grease, oils, etc.

Product preparation
Initially, dilute the product using the appropriate solvent up to the suitable product viscosity.

Application
Application of the product Compact Lack GL is made by an air pistol, brush or roller. First, pour the prepared product into the container. Then, with the pistol, brush or roller, the product is spread on the wooden surface. The application is done by applying two consecutive coatings in order to achieve the best filling of the wooden surface. Make sure that the appropriate quantity is absorbed in order to achieve maximum protection. Clean the working tools immediately after use, using solvent-based cleaners.

Storage
36 months, provided that the cans are closed and in normal storage conditions.

Notes
• It is recommended to avoid application in temperatures below 5ºC.

Packaging: 1lt drums

Technical data	
Resin:	Alkyd resin
Density EN ISO 2811- 1:	1,15±0,02 gr/ml
Dry residue EN ISO 3251:	35%
Dilution degree:	10 – 20%
Viscosity:	45 ± 5 KU
Drying time:	1 – 2 hrs depending on environment conditions
Time for repainting:	2 – 3 hrs depending on environment conditions
VOC in the ready product (European Directive 2004/42/CE) (g/l):	≤ 10
TVOC ambient emissions, Simulation chamber ISO 16000- 9 (mg/m³):	≤ 0.2

COMPACT LACK SN

Transparent and coloured varnish for wood surfaces that gives the effect of semi gloss, for interior use.

Characteristics
- Available in 8 colours
- Elastic and strong surface
- Protects wood natural optic
- Excellent workability and levelling
- Very strong adhesion and rapid drying
- Long duration paints

Recommendations for use
Ideal for wood surfaces such as doors, windows, frames, trusses and beams, etc.

APPLICATION PROCEDURE

Surface preparation
Clean the surfaces of the damaged old paint without bonding and the disconnected parts by grinding the wooden surface. Eliminate with an air scour all the dust generated by the grinding process, as well as other elements that hinder the adhesion, such as grease, oils, etc.

Product preparation
Initially, dilute the product using the appropriate solvent up to the suitable product viscosity.

Application
Application of the product Compact Lack SN is made with an air pistol, brush or roller. First, pour the prepared product into the container. Then, with the pistol, brush or roller, the product is spread on the wooden surface. The application is done by applying two consecutive coatings in order to achieve the best filling of the wooden surface. Make sure that the appropriate quantity is absorbed in order to achieve maximum protection. Clean the working tools immediately after use, using solvent-based cleaners.

Storage
36 months, provided that the cans are closed and in normal storage conditions.

Notes
• It is recommended to avoid application in temperatures below 5ºC.

Packaging: 0.75lt drums

Technical data	
Resin:	Alkyd resin
Density EN ISO 2811- 1:	1,15±0,02 gr/ml
Dry residue EN ISO 3251:	35%
Dilution degree:	10 – 20%
Viscosity:	45 ± 5 KU
Drying time:	1 – 2 hours depending on environment conditions
Time for repainting:	2 - 3 hours depending on environment conditions
VOC in the ready product (European Directive 2004/42/CE) (g/l):	≤ 10
TVOC ambient emissions, Simulation chamber ISO 16000- 9 (mg/m³):	≤ 0.2

COMPACT LACK EXTRA

Transparent wood varnish with UV filters for perfect wood protection, for indoor and outdoor use.

Characteristics
- Excellent workability and levelling
- Protects and enhances wood natural optic
- Very strong adhesion and rapid drying
- Elastic, strong surface and very durable to atmospheric conditions
- Contains UV filters for protection from damaging effects of sunlight

Recommendations for use
Ideal for wood surfaces such as doors, windows, frames, cupboards, garden furniture, shelters, trusses and beams, fences, etc.

APPLICATION PROCEDURE

Surface preparation
Clean the surfaces of the damaged old paint without bonding and the disconnected parts by grinding the wooden surface. Eliminate with an air scour all the dust generated by the grinding process, as well as other elements that hinder the adhesion, such as grease, oils, etc.

Product preparation
Initially, dilute the product using the appropriate solvent up to the suitable product viscosity.

Application
Application of the product Compact Lack Extra is made with an air pistol, brush or roller. First, pour the prepared product into the container. Then, with the pistol, brush or roller, the product is spread on the wooden surface. The application is done by applying two consecutive coatings in order to achieve the best filling of the wooden surface. Make sure that the appropriate quantity is absorbed in order to achieve maximum protection. Clean the working tools immediately after use, using solvent-based cleaners.

Storage
36 months, provided that the cans are closed and in normal storage conditions.

Notes
- It is recommended to avoid application in temperatures below 5ºC

Packaging: 0.75lt drums

Technical data	
Resin:	Alkyd resin
Density EN ISO 2811- 1:	1,15±0,02 gr/ml
Dry residue EN ISO 3251:	35%
Dilution degree:	10 – 20%
Viscosity:	45 ± 5 KU
Drying time:	30 - 60 minutes depending on environment conditions
Time for repainting:	2 - 3 hours depending on environment conditions
VOC in the ready product (European Directive 2004/42/CE) (g/l):	≤ 10
TVOC ambient emissions, Simulation chamber ISO 16000- 9 (mg/m³):	≤ 0.2

DEUTSCH COLOR

BOND G33

Transparent glue for wood and MDF with high mechanical resistance

Characteristics
- Strong bonding
- High viscosity
- Good flexibility
- Transparent film
- Rapid drying time
- High resistance to water

Recommendations for use
It is used for gluing wood materials such as chairs, tables, door frames, windows and is mostly used in adhesion.

APPLICATION PROCEDURE

Surface preparation
The surfaces should not be exposed to dust, dirt, oils and salts before application.

Product preparation
Mix the product until it is homogenized, before beginning the application.

Application
The product Bond G33 is applied by a brush or a roller. The product is spread on the wood or MDF surface. It is recommended to apply the glue on one side of the object. In case of difficulties apply the product on both sides. Clean the working tools with running water immediately after use.

Storage
36 months, provided that the bucket is closed and in normal storage conditions.

Notes
- It is recommended to avoid application in temperatures below 5ºC.

Packaging: 1Kg / 3Kg / 10Kg / 25Kg plastic buckets

Technical data	
Resin:	PVA copolymer
Density (White):	1,05±0,02 gr/ml
Spread rate:	Up to 12m²/l per painting
Drying time:	20 ± 5 minutes Drying and time and re-painting time can be prolonged on relatively low temperatures and high humidity values
pH:	9±1
MFFT:	+5ºC
Colours:	Transparent
Repainting time:	16 hours Drying and time and re-painting time can be prolonged on relatively low temperatures and high humidity values
Colours:	Transparent

DEUTSCH COLOR

POLYURETHANE BASED PRODUCTS

DEUTSCH COLOR

GRAF 200 A

Transparent two-component economical liner, for wood pore filling.

Characteristics
• Light aroma
• High transparency that does not effect the final colour
• Very good grinding and covering properties

Recommendations for use
Graf 200 is recommended as a liner on wooden surfaces such as furniture, tables, chairs, veneer doors, wooden toys, etc.

APPLICATION PROCEDURE

Surface preparation
Surfaces should be clean, dry and treated from all defects, powders, impurities, oils and salts before applying the product.

Product preparation
Mix the two components A and B in a 2A:1B ratio in volume. After mixing the two components, dilute the product with a dose of up to 25% of the volume with the solvent Sol DC 1 or Sol DC 2. The application viscosity is recommended to be between 14 - 17 sec at 25˚C, measured at Ford Cup No. 4. The air pistol head is recommended to be a range of 1.6 - 2,2 mm. The product must be applied within 90 minutes from the moment of its preparation.

Application
Application of the product Graf 200 is made with an air pistol. Initially the product is mixed in the appropriate ratio and after the surface has been ground and cleaned by a pistol, the product is spread onto the two-layered wood surface. Grind the surface and apply the final coatings the next day. Clean the working tools immediately after use, using solvent-based cleaners.

Storage
36 months, provided that the cans are closed and in normal storage conditions. It is strictly forbidden to expose the product to sun and moisture.

Notes
• It is recommended to avoid application of product in temperatures below 5ºC and above 30ºC.

Consumption: 200gr - 250gr/lt

Packaging: 4lt / 20lt drums

Technical data	
Resin:	Polyurethane resin
Density EN ISO 2811- 1:	1,15±0,02 gr/ml
Dry residue EN ISO 3251:	80%
Mix ratio with catalyst:	2 : 1
Viscosity:	95 ± 5 KU
Reaction time:	2 – 3 hours Also depending on environment conditions and diluent used
Time for grinding:	24 hours
VOC in the ready product (European Directive 2004/42/CE) (g/l):	≤ 100
TVOC ambient emissions, Simulation chamber ISO 16000- 9 (mg/m^3):	≤ 2

DEUTSCH COLOR

GRAF 250 A

White two-component economical liner, for wood pore filling.

Characteristics
• Light aroma
• Extra whiteness
• Resistant to yellowing
• Very good grinding and covering properties

Recommendations for use
Graf 250 is recommended as a white liner on wooden surfaces or MDF such as furniture, tables, chairs, MDF doors, plain or veneer ones. Also, this product is used in all wooden or MDF objects that are painted with white varnish or pigments.

APPLICATION PROCEDURE

Surface preparation
Surfaces should be clean, dry and treated from all defects, powders, impurities, oils and salts before applying the product.

Product preparation
Mix the two components A and B in a 2A:1B ratio in volume. After mixing the two components, dilute the product with a dose of up to 25% of the volume with the solvent Sol DC 1 or Sol DC 2. The application viscosity is recommended to be between 14 - 17 sec at 25˚C, measured at Ford Cup No. 4. The air pistol head is recommended to be a range of 1.6 - 2,2 mm. The product must be applied within 90 minutes from the moment of its preparation.

Application of product
Application of the product Graf 250 is made with an air pistol. Initially the product is mixed in the appropriate ratio and after the surface has been ground and cleaned by a pistol, the product is spread onto the two-layered wood surface. Grind the surface and apply the final coatings the next day. Clean the working tools immediately after use, using solvent-based cleaners.

Storage
36 months, provided that the cans are closed and in normal storage conditions. It is strictly forbidden to expose the product to sun and moisture.

Notes
• It is recommended to avoid application of product in temperatures below 5ºC and above 30ºC.

Consumption: 150gr - 200gr/lt

Packaging: 4lt / 20lt drums

Technical data	
Resin:	Polyurethane resin
Density EN ISO 2811- 1:	1,45±0,02 gr/ml
Dry residue EN ISO 3251:	75%
Mix ratio with catalyst:	2 : 1
Viscosity:	125 ± 5 KU
Reaction time:	2 – 3 hours Also depending on environment conditions and diluent used
Time for grinding:	24 hours
VOC in the ready product (European Directive 2004/42/CE) (g/l):	≤ 100
TVOC ambient emissions, Simulation chamber ISO 16000- 9 (mg/m^3):	≤ 2

GRAF 100 A

Two-component polyurethane transparent acrylic liner with premium quality for painting all types of wood

Characteristics
- Light aroma
- Resistant to yellowing
- Good grinding and covering properties
- High transparency that does not effect the final colour

Recommendations for use
Graf 100 is recommended as a liner on wooden surfaces such as furniture, tables, chairs, veneer doors, wooden toys, etc.

APPLICATION PROCEDURE

Surface preparation
Surfaces should be clean, dry and treated from all defects, powders, impurities, oils and salts before applying the product.

Product preparation
Mix the two components A and B in a 2A:1B ratio in volume. After mixing the two components, dilute the product with a dose of up to 25% of the volume with the solvent Sol DC 1 or Sol DC 2. The application viscosity is recommended to be between 14 - 17 sec at 25˚C, measured at Ford Cup No. 4. The air pistol head is recommended to be a range of 1.6 - 2,2 mm. The product must be applied within 90 minutes from the moment of its preparation.

Application
Application of the product Graf 100 is made with an air pistol. Initially the product is mixed in the appropriate ratio and after the surface has been ground and cleaned by a pistol, the product is spread onto the two-layered wood surface. Grind the surface and apply the final coatings the next day. Clean the working tools immediately after use, using solvent-based cleaners.

Storage
36 months, provided that the cans are closed and in normal storage conditions. It is strictly forbidden to expose the product to sun and moisture.

Notes
- It is recommended to avoid application of product in temperatures below 5ºC and above 30ºC.

Consumption: 200gr - 250gr/lt

Packaging: 4lt / 20lt drums

Technical data	
Resin:	Polyurethane resin
Density EN ISO 2811- 1:	1,15±0,02 gr/ml
Dry residue EN ISO 3251:	80%
Mix ratio with catalyst:	2 : 1
Viscosity:	95 ± 5 KU
Reaction time:	2 – 3 hours Also depending on environment conditions and diluent used
Time for repainting:	24 hours
VOC in the ready product (European Directive 2004/42/CE) (g/l):	≤ 100
TVOC ambient emissions, Simulation chamber ISO 16000- 9 (mg/m³):	≤ 2

DEUTSCH COLOR

GRAF 150 A

White polyurethane two component premium quality liner with very good filling and working properties.

Characteristics
- Light aroma
- Extra whiteness
- Resistant to yellowing
- Very good grinding and covering properties

Recommendations for use
Graf 150 is recommended as a liner on wooden surfaces such as furniture, tables, chairs, different objects, wooden toys, etc.

APPLICATION PROCEDURE

Surface preparation
Surfaces should be clean, dry and treated from all defects, powders, impurities, oils and salts before applying the product.

Product preparation
Mix the two components A and B in a 2A:1B ratio in volume. After mixing the two components, dilute the product with a dose of up to 25% of the volume with the solvent Sol DC 1 or Sol DC 2. The application viscosity is recommended to be between 14 - 17 sec at 25˚C, measured at Ford Cup No. 4. The air pistol head is recommended to be a range of 1.6 - 2,2 mm. The product must be applied within 90 minutes from the moment of its preparation.

Application
Application of the product Graf 150 is made with an air pistol. Initially the product is mixed in the appropriate ratio and after the surface has been ground and cleaned by a pistol, the product is spread onto the two-layered wood surface. Grind the surface and apply the final coatings the next day. Clean the working tools immediately after use, using solvent-based cleaners.

Storage
36 months, provided that the cans are closed and in normal storage conditions. It is strictly forbidden to expose the product to sun and moisture.

Notes
- It is recommended to avoid application of product in temperatures below 5ºC and above 30ºC.

Consumption: 150gr - 200gr/lt

Packaging: 4lt / 20lt drums

Technical data	
Resin:	Polyurethane resin
Density EN ISO 2811- 1:	1,45±0,02 gr/ml
Dry residue EN ISO 3251:	75%
Mix ratio with catalyst:	2 : 1
Viscosity:	125 ± 5 KU
Reaction time:	2 – 3 hours Also depending on environment conditions and diluent used
Time for repainting:	24 hours
VOC in the ready product (European Directive 2004/42/CE) (g/l):	≤ 100
TVOC ambient emissions, Simulation chamber ISO 16000- 9 (mg/m³):	≤ 2

BRUCK 410

Two component white polyurethane varnish with 10% gloss.

Characteristics
- Light aroma
- Perfect extension
- Very good covering properties
- Resistant to yellowing and scratching

Recommendations for use
It is recommended to be used as a varnish on all wooden surfaces that are previously treated with liner intended for furniture, doors, tables, chairs, various wooden objects, wooden toys, etc. It can be applied only on surfaces prepared with a two-component polyurethane-based liner.

APPLICATION PROCEDURE

Surface preparation
Wood surfaces should be free from high moisture content, free from dust and elements that hinder the adhesion of the varnish. Before painting with varnish, the surface should be treated with a polyurethane-based liner, Graf 100 or Graf 200.

Product preparation
First, mix each component into its packaging container. Then pour H1145 or H1145 Slow catalyst, depending on the temperature, inside the Bruck 410 container and mix well for about 5 minutes. Then put the prepared mixture into the reservoir of the application pistol. The product must be applied within 90 minutes from the moment of its preparation.

Application
The product Bruck 410 is applied with an air pistol. First, pour the prepared product into the container. Then, with the pistol, the product is spread on the wooden surface. The application is done by crossing the directions in order to fill and level the wood surface as best as possible. Clean the working tools immediately after use, using solvent-based cleaners.

Storage
36 months, provided that the cans are closed and in normal storage conditions. It is strictly forbidden to expose the product to sun and moisture.

Technical data	
Resin:	Polyurethane resin
Density EN ISO 2811- 1:	1,15±0,02 gr/ml
Dry residue EN ISO 3251:	70%
Mix ratio with catalyst:	2 : 1
Viscosity:	95 ± 5 KU
Reaction time:	2 – 3 hours Also depending on environment conditions and diluent used
Time for grinding:	24 hours
VOC in the ready product (European Directive 2004/42/CE) (g/l):	≤ 10
TVOC ambient emissions, Simulation chamber ISO 16000- 9 (mg/m^3):	≤ 0.2

Notes
- It is recommended to avoid application of product in temperatures below 5°C and above 30°C.

Consumption: 200gr - 250gr/lt

Packaging: 4lt / 20lt drums

DEUTSCH COLOR

BRUCK 430

Two component white polyurethane varnish with 30% gloss.

Characteristics
- Light aroma
- Perfect spread
- Very good covering properties
- Resistant to yellowing and scratching

Recommendations for use
It is recommended to be used as a varnish on all wooden surfaces that are previously treated with liner intended for furniture, doors, tables, chairs, various wooden objects, wooden toys, etc. It can be applied only on surfaces prepared with a two-component polyurethane-based liner.

APPLICATION PROCEDURE

Surface preparation
Wood surfaces should be free from high moisture content, free from dust and elements that hinder the adhesion of the varnish. Before painting with varnish, the surface should be treated with a polyurethane-based liner, Graf 100 or Graf 200.

Product preparation
First, mix each component into its packaging container. Then pour H1145 or H1145 Slow catalyst, depending on the temperature, inside the Bruck 410 container and mix well for about 5 minutes. Then put the prepared mixture into the reservoir of the application pistol. The product must be applied within 90 minutes from the moment of its preparation.

Application
The product Bruck 410 is applied with an air pistol. First, pour the prepared product into the container. Then, with the pistol, the product is spread on the wooden surface. The application is done by crossing the directions in order to fill and level the wood surface as best as possible. Clean the working tools immediately after use, using solvent-based cleaners.

Storage
36 months, provided that the cans are closed and in normal storage conditions. It is strictly forbidden to expose the product to sun and moisture.

Technical data	
Resin:	Polyurethane resin
Density EN ISO 2811- 1:	1,15±0,02 gr/ml
Dry residue EN ISO 3251:	70%
Mix ratio with catalyst:	2 : 1
Viscosity:	95 ± 5 KU
Reaction time:	2 – 3 hours Also depending on environment conditions and diluent used
Time for grinding:	24 hours
VOC in the ready product (European Directive 2004/42/CE) (g/l):	≤ 10
TVOC ambient emissions, Simulation chamber ISO 16000- 9 (mg/m^3):	≤ 0.2

Notes
- It is recommended to avoid application of product in temperatures below 5°C and above 30°C.

Consumption: 200gr - 250gr/lt

Packaging: 4lt / 20lt drums

BRUCK 445

Two component white polyurethane varnish with 45% gloss.

Characteristics
- Light aroma
- Perfect spread
- Very good covering properties
- Resistant to yellowing and scratching

Recommendations for use
It is recommended to be used as a varnish on all wooden surfaces that are previously treated with liner intended for furniture, doors, tables, chairs, various wooden objects, wooden toys, etc. It can be applied only on surfaces prepared with a two-component polyurethane-based liner.

APPLICATION PROCEDURE

Surface preparation
Wood surfaces should be free from high moisture content, free from dust and elements that hinder the adhesion of the varnish. Before painting with varnish, the surface should be treated with a polyurethane-based liner, Graf 100 or Graf 200.

Product preparation
First, mix each component into its packaging container. Then pour H1145 or H1145 Slow catalyst, depending on the temperature, inside the Bruck 410 container and mix well for about 5 minutes. Then put the prepared mixture into the reservoir of the application pistol. The product must be applied within 90 minutes from the moment of its preparation.

Application
The product Bruck 410 is applied with an air pistol. First, pour the prepared product into the container. Then, with the pistol, the product is spread on the wooden surface. The application is done by crossing the directions in order to fill and level the wood surface as best as possible. Clean the working tools immediately after use, using solvent-based cleaners.

Storage
36 months, provided that the cans are closed and in normal storage conditions. It is strictly forbidden to expose the product to sun and moisture.

Technical data	
Resin:	Polyurethane resin
Density EN ISO 2811- 1:	1,15±0,02 gr/ml
Dry residue EN ISO 3251:	70%
Mix ratio with catalyst:	2 : 1
Viscosity:	95 ± 5 KU
Reaction time:	2 – 3 hours Also depending on environment conditions and diluent used
Time for grinding:	24 hours
VOC in the ready product (European Directive 2004/42/CE) (g/l):	≤ 10
TVOC ambient emissions, Simulation chamber ISO 16000- 9 (mg/m³):	≤ 0.2

Notes
- It is recommended to avoid application of product in temperatures below 5ºC and above 30ºC.

Consumption: 200gr - 250gr/lt

Packaging: 4lt / 20lt drums

DEUTSCH COLOR

BRUCK 460

Two component white polyurethane varnish with 60% gloss.

Characteristics
- Light aroma
- Perfect spread
- Very good covering properties
- Resistant to yellowing and scratching

Recommendations for use
It is recommended to be used as a varnish on all wooden surfaces that are previously treated with liner intended for furniture, doors, tables, chairs, various wooden objects, wooden toys, etc. It can be applied only on surfaces prepared with a two-component polyurethane-based liner.

APPLICATION PROCEDURE

Surface preparation
Wood surfaces should be free from high moisture content, free from dust and elements that hinder the adhesion of the varnish. Before painting with varnish, the surface should be treated with a polyurethane-based liner, Graf 100 or Graf 200.

Product preparation
First, mix each component into its packaging container. Then pour H1145 or H1145 Slow catalyst, depending on the temperature, inside the Bruck 410 container and mix well for about 5 minutes. Then put the prepared mixture into the reservoir of the application pistol. The product must be applied within 90 minutes from the moment of its preparation.

Application
The product Bruck 410 is applied with an air pistol. First, pour the prepared product into the container. Then, with the pistol, the product is spread on the wooden surface. The application is done by crossing the directions in order to fill and level the wood surface as best as possible. Clean the working tools immediately after use, using solvent-based cleaners.

Storage
36 months, provided that the cans are closed and in normal storage conditions. It is strictly forbidden to expose the product to sun and moisture.

Technical data	
Resin:	Polyurethane resin
Density EN ISO 2811- 1:	1,15±0,02 gr/ml
Dry residue EN ISO 3251:	70%
Mix ratio with catalyst:	2 : 1
Viscosity:	95 ± 5 KU
Reaction time:	2 – 3 hours Also depending on environment conditions and diluent used
Time for grinding:	24 hours
VOC in the ready product (European Directive 2004/42/CE) (g/l):	≤ 10
TVOC ambient emissions, Simulation chamber ISO 16000- 9 (mg/m³):	≤ 0.2

Notes
- It is recommended to avoid application of product in temperatures below 5ºC and above 30ºC.

Consumption: 200gr - 250gr/lt

Packaging: 4lt / 20lt drums

BRUCK 510

Two component white polyurethane varnish with 10% gloss.

Characteristics
- Light aroma
- Perfect spread
- Extra whiteness
- Very good covering properties
- Resistant to yellowing and scratching

Recommendations for use
It is recommended to be used as a varnish on all wooden surfaces that are previously treated with liner intended for furniture, doors, tables, chairs, various wooden objects, wooden toys, etc. It can be applied only on surfaces prepared with a two-component polyurethane-based liner.

APPLICATION PROCEDURE

Surface preparation
Wood surfaces should be free from high moisture content, free from dust and elements that hinder the adhesion of the varnish. Before painting with varnish, the surface should be treated with a polyurethane-based liner, Graf 150 or Graf 250.

Product preparation
First, mix each component into its packaging container. Then pour H1145 or H1145 Slow catalyst, depending on the temperature, or H5000 when high resistance to yellowing is needed, inside the Bruck 510 container and mix well for about 5 minutes. Then put the prepared mixture into the reservoir of the application pistol. The product must be applied within 60 minutes from the moment of its preparation.

Application
The product Bruck 510 is applied with an air pistol. First, pour the prepared product into the container. Then, with the pistol, the product is spread on the wooden surface. The application is done by crossing the directions in order to fill and level the wood surface as best as possible. Clean the working tools immediately after use, using solvent-based cleaners.

Storage
36 months, provided that the cans are closed and in normal storage conditions. It is strictly forbidden to expose the product to sun and moisture.

Notes
- It is recommended to avoid application of product in temperatures below 5ºC and above 30ºC.

Technical data

Resin:	Polyurethane resin
Density EN ISO 2811- 1:	1,45±0,02 gr/ml
Dry residue EN ISO 3251:	75%
Mix ratio with catalyst:	2 : 1
Viscosity:	105 ± 5 KU
Reaction time:	2 – 3 hours Also depending on environment conditions and diluent used
Time for grinding:	24 hours
VOC in the ready product (European Directive 2004/42/CE) (g/l):	≤ 10
TVOC ambient emissions, Simulation chamber ISO 16000- 9 (mg/m³):	≤ 0.2

Consumption: 150gr - 200gr/lt

Packaging: 4lt / 20lt drums

DEUTSCH COLOR

BRUCK 535

Two component white polyurethane varnish with 35% gloss.

Characteristics
- Light aroma
- Perfect spread
- Extra whiteness
- Simple application
- High solid content
- Very good covering properties
- Resistant to yellowing and scratching

Recommendations for use
It is recommended to be used as a paint on all wooden surfaces that are previously treated with liner intended for furniture, doors, tables, chairs, various wooden objects, wooden toys, etc. It can be applied only on surfaces prepared with a two-component polyurethane-based liner.

APPLICATION PROCEDURE

Surface preparation
Wood surfaces should be free from high moisture content, free from dust and elements that hinder the adhesion of the paint. Before painting with paint, the surface should be treated with a polyurethane-based liner, Graf 150 or Graf 250.

Product preparation
First, mix each component into its packaging container. Then pour H1145 or H1145 Slow catalyst, depending on the temperature, or H5000 when high resistance to yellowing is needed, inside the Bruck 535 container and mix well for about 5 minutes. Then put the prepared mixture into the reservoir of the application pistol. The product must be applied within 60 minutes from the moment of its preparation.

Application
The product Bruck 535 is applied with an air pistol. First, pour the prepared product into the container. Then, with the pistol, the product is spread on the wooden surface. The application is done by crossing the directions in order to fill and level the wood surface as best as possible. Clean the working tools immediately after use, using solvent-based cleaners.

Storage
36 months, provided that the cans are closed and in normal storage conditions. It is strictly forbidden to expose the product to sun and moisture.

Technical data

Resin:	Polyurethane resin
Density EN ISO 2811- 1:	1,45±0,02 gr/ml
Dry residue EN ISO 3251:	70%
Mix ratio with catalyst:	2 : 1
Viscosity:	105 ± 5 KU
Reaction time:	2 – 3 hours Also depending on environment conditions and diluent used
Time for grinding:	24 hours
VOC in the ready product (European Directive 2004/42/CE) (g/l):	≤ 10
TVOC ambient emissions, Simulation chamber ISO 16000- 9 (mg/m³):	≤ 0.2

Notes
- It is recommended to avoid application of product in temperatures below 5ºC and above 30ºC.

Consumption: 150gr - 200gr/lt

Packaging: 4lt / 20lt drums

BRUCK 560

Two component white polyurethane varnish with 60% gloss.

Characteristics
- Light aroma
- Perfect spread
- Extra whiteness
- Simple application
- High solid content
- Very good covering properties
- Resistant to yellowing and scratching

Recommendations for use
It is recommended to be used as a paint on all wooden surfaces that are previously treated with liner intended for furniture, doors, tables, chairs, various wooden objects, wooden toys, etc. It can be applied only on surfaces prepared with a two-component polyurethane-based liner.

APPLICATION PROCEDURE

Surface preparation
Wood surfaces should be free from high moisture content, free from dust and elements that hinder the adhesion of the paint. Before painting with paint, the surface should be treated with a polyurethane-based liner, Graf 150 or Graf 250.

Product preparation
Mix the two components A (Bruck 535) and B (H5000) in volume ratio 2A:1B. After mixing the two components, dilute the product with a dose of up to 25% of the volume, with the solvent Sol DC 1 or Sol DC 2. The product must be applied within 60 minutes from the moment of its preparation.

Application
The product Bruck 535 is applied only with an air pistol. Clean first the dust from the surface of the object, treat it for any defects and then apply the product. After the object is treated with two coatings of white liner, apply the product Bruck 535. After applying, leave the object to dry in a totally isolated space from dust and in the required temperatures. The air pistol head is recommended to be a range of 1 - 1,7 mm. Clean the working tools immediately after use, using solvent-based cleaners.

Storage
36 months, provided that the cans are closed and in normal storage conditions. It is strictly forbidden to expose the product to sun and moisture.

Technical data	
Resin:	Polyurethane resin
Density EN ISO 2811- 1:	1,45±0,02 gr/ml
Dry residue EN ISO 3251:	72%
Mix ratio with catalyst:	2 : 1
Viscosity:	95 ± 5 KU
Reaction time:	2 – 3 hours Also depending on environment conditions and diluent used
Time for grinding:	24 hours
VOC in the ready product (European Directive 2004/42/CE) (g/l):	≤ 10
TVOC ambient emissions, Simulation chamber ISO 16000- 9 (mg/m³):	≤ 0.2

Notes
- It is recommended to avoid application of product in temperatures below 5ºC and above 30ºC.

Consumption: 150gr - 200gr/lt

Packaging: 4lt / 20lt drums

DEUTSCH COLOR

SMART 200 A

Two component white polyurethane varnish with 100% gloss.

Characteristics
- Light aroma
- Simple application
- Maximum gloss
- High transparency
- Resistant to yellowing
- Perfect covering properties
- Super strong to scratchings

Recommendations for use
It is recommended to be used as a two component varnish on all wooden surfaces that are previously treated with Graf 100 and Graf 200 liner intended for furniture, doors, tables, chairs, various wooden objects, sun tents, wooden toys, etc.

APPLICATION PROCEDURE

Surface preparation
Wood surfaces should be free from high moisture content, free from dust and elements that hinder the adhesion of the varnish.

Product preparation
Mix the two components A and B in volume ratio 2A:1B. After mixing the two components, dilute the product with a dose of up to 20% of the volume with the solvent Sol DC 1 or Sol DC 2. The product must be applied within 90 minutes from the moment of its preparation.

Application
The of product Smart 200 is applied only with an air pistol. Clean first the dust from the surface of the object, treat it for any defects and then apply the product. After the object is treated with two consecutive coatings of transparent liner, apply the product Smart 200. After applying, leave the object to dry in a totally isolated space from dust and in the required temperatures. The air pistol head is recommended to be a range of 1.4 - 2,2mm. Clean the working tools immediately after use, using solvent-based cleaners.

Storage
36 months, provided that the cans are closed and in normal storage conditions. It is strictly forbidden to expose the product to sun and moisture.

Technical data	
Resin:	Polyurethane resin
Density EN ISO 2811- 1:	1,15±0,02 gr/ml
Dry residue EN ISO 3251:	70%
Mix ratio with catalyst:	1 : 1
Viscosity:	95 ± 5 KU
Reaction time:	2 – 3 hours Also depending on environment conditions and diluent used
Time for grinding:	24 hours
VOC in the ready product (European Directive 2004/42/CE) (g/l):	≤ 10
TVOC ambient emissions, Simulation chamber ISO 16000- 9 (mg/m³):	≤ 0.2

Notes
- It is recommended to avoid application of product in temperatures below 5ºC and above 30ºC.

Consumption: 150gr - 200gr/lt

Packaging: 4lt / 20lt drums

SMART 300 A

Two component transparent polyurethane varnish 100% with gloss.

Characteristics
- Light aroma
- Extra whiteness
- Perfect spread
- Simple application
- Maximum gloss
- Perfect covering properties
- Resistant to yellowing and scratching

Recommendations for use
It is recommended to be used as a two component varnish on all wooden surfaces that are previously treated with Graf 150 and Graf 250 liner intended for furniture, doors, tables, chairs, various wooden objects, sun tents, wooden toys, etc.

APPLICATION PROCEDURE

Surface preparation
Wood surfaces should be free from high moisture content, free from dust and elements that hinder the adhesion of the varnish. Before painting with varnish, the surface should be treated with a polyurethane-based liner, Graf 150 or Graf 250.

Product preparation
Mix the two components A and B in a volume ratio 1A: 1B. After mixing the two components, dilute the product with a dose of up to 20% of the volume with the solvent Sol DC 1 or Sol DC 2. The product must be applied within 90 minutes from the moment of its preparation.

Application
The product SMART 300 is applied only with an air pistol. Clean the dust from the surface of the object, treat it for any defects and then apply the product. After the object is treated with two consecutive coatings of transparent liner, apply the product SMART 300. After applying the product SMART 300, leave the object to dry in a totally isolated space from dust and in the required temperatures. The air pistol head is recommended to be a range of 1.6 - 2,2 mm. Clean the working tools immediately after use, using solvent-based cleaners.

Storage
36 months, provided that the cans are closed and in normal storage conditions. It is strictly forbidden to expose the product to sun and moisture.

Technical data	
Resin:	Polyurethane resin
Density EN ISO 2811- 1:	1,45±0,02 gr/ml
Dry residue EN ISO 3251:	70%
Mix ratio with catalyst:	1 : 1
Viscosity:	95 ± 5 KU
Reaction time:	2 – 3 hours Also depending on environment conditions and diluent used
Time for grinding:	24 hours
VOC in the ready product (European Directive 2004/42/CE) (g/l):	≤ 10
TVOC ambient emissions, Simulation chamber ISO 16000- 9 (mg/m^3):	≤ 0.2

Notes
- It is recommended to avoid application of product in temperatures below 5ºC and above 30ºC.

Consumption: 200gr - 250gr/lt

Packaging: 4lt / 20lt drums

H5000

High quality, universal, transparent catalyst with normal drying for all polyurethane products.

Characteristics
- Light aroma
- Normal drying time
- Very resistant to yellowing
- Does not affect colour accuracy
- Improves grinding properties

Recommendations for use
It is recommended to be used as a catalyst for the polyurethane based liner systems such as Graf 100, Graf 150, Graf 200 and Graf 250. It is recommended to be used as a catalyst for paint systems with polyurethane base such as: Bruck 510, Bruck 535 and Bruck 560. It is recommended to be used in those cases where the painted surface will not be exposed under the UV radiation effect of the sun.

Storage
24 months, provided that the cans are closed and in normal storage conditions. It is strictly forbidden to expose the product to sun and moisture.

Notes
- It is recommended to avoid application of product in temperatures below 5ºC and above 30ºC.

Packaging: 4lt / 20lt drums

Technical data	
Resin:	Polyurethane resin
Density EN ISO 2811- 1:	0,95±0,02 gr/ml
Dry residue EN ISO 3251:	32%
Mix ratio with catalyst:	1 : 2
Viscosity:	35 ± 5 KU
Reaction time:	2 – 3 hours Also depending on environment conditions and diluent used
Time for grinding:	24 hours
VOC in the ready product (European Directive 2004/42/CE) (g/l):	≤ 10
TVOC ambient emissions, Simulation chamber ISO 16000- 9 (mg/m^3):	≤ 0.2

H1145

High quality, universal, transparent catalyst with normal drying for all polyurethane products.

Characteristics
- Light aroma
- Maintains elasticity
- Normal drying time
- Does not affect colour accuracy
- Improves grinding properties

Recommendations for use
It is recommended to be used as a catalyst for the polyurethane based liner systems such as Graf 100, Graf 150, Graf 200 and Graf 250. It is recommended to be used as a catalyst for paint systems with polyurethane base such as: Bruck 410, Bruck 430, Bruck 445, Bruck 460, Bruck 460, Bruck 510, Bruck 535 and Bruck 560. It is recommended to be used in those cases where the painted surface will not be exposed under the UV radiation effect of the sun.

Storage
24 months, provided that the cans are closed and in normal storage conditions. It is strictly forbidden to expose the product to sun and moisture.

Notes
- It is recommended to avoid application of product in temperatures below 5ºC and above 30ºC.

Packaging: 2lt / 10lt drums

Technical data	
Resin:	Polyurethane resin
Density EN ISO 2811- 1:	0,95±0,02 gr/ml
Dry residue EN ISO 3251:	32%
Mix ratio with catalyst:	1 : 2
Viscosity:	35 ± 5 KU
Reaction time:	2 – 3 hours Also depending on environment conditions and diluent used
Time for grinding:	24 hours
VOC in the ready product (European Directive 2004/42/CE) (g/l):	≤ 10
TVOC ambient emissions, Simulation chamber ISO 16000- 9 (mg/m^3):	≤ 0.2

H1145 SLOW

High quality, universal, transparent catalyst with slow drying for all polyurethane products.

Characteristics
- Light aroma
- Maintains elasticity
- Delays in the drying time
- Does not affect colour accuracy
- Improves grinding properties

Recommendations for use
It is recommended to be used as a catalyst for the polyurethane based liner systems such as Graf 100, Graf 150, Graf 200 and Graf 250 when delay in drying time is needed. It is recommended to be used as a catalyst for paint systems with polyurethane base such as: Bruck 410, Bruck 430, Bruck 445, Bruck 460, Bruck 460, Bruck 510, Bruck 535 dhe Bruck 560. It is recommended to be used in those cases where the painted surface will not be exposed under the UV radiation effect of the sun.

Storage
24 months, provided that the cans are closed and in normal storage conditions. It is strictly forbidden to expose the product to sun and moisture.

Notes
- It is recommended to avoid application of product in temperatures below 5ºC and above 30ºC.

Packaging: 2lt / 10lt drums

Technical data	
Resin:	Polyurethane resin
Density EN ISO 2811- 1:	0,95±0,02 gr/ml
Dry residue EN ISO 3251:	32%
Mix ratio with catalyst:	1 : 2
Viscosity:	35 ± 5 KU
Reaction time:	2 – 3 hours Also depending on environment conditions and diluent used
Time for grinding:	24 hours
VOC in the ready product (European Directive 2004/42/CE) (g/l):	≤ 10
TVOC ambient emissions, Simulation chamber ISO 16000- 9 (mg/m^3):	≤ 0.2

GRAF 200 B

High quality transparent catalyst used for product Graf 200 B

Characteristics
- Light aroma
- Normal drying time
- Very resistant to yellowing
- Does not affect colour accuracy
- Improves grinding properties

Recommendations for use
It is used as a catalyst in liner systems with polyurethane base Graf 200 B.

Storage
24 months, provided that the cans are closed and in normal storage conditions. It is strictly forbidden to expose the product to sun and moisture.

Notes
- It is recommended to avoid application of product in temperatures below 5ºC and above 30ºC.

Packaging: 2lt / 10lt drums

Technical data	
Resin:	Polyurethane resin
Density EN ISO 2811- 1:	0,95±0,02 gr/ml
Dry residue EN ISO 3251:	25%
Mix ratio with catalyst:	1 : 2
Viscosity:	35 ± 5 KU
Reaction time:	2 – 3 hours Also depending on environment conditions and diluent used
Time for grinding:	24 hours
VOC in the ready product (European Directive 2004/42/CE) (g/l):	≤ 10
TVOC ambient emissions, Simulation chamber ISO 16000- 9 (mg/m^3):	≤ 0.2

DEUTSCH COLOR

GRAF 250 B

High quality transparent catalyst used for product Graf 250 B

Characteristics
- Light aroma
- Maintains elasticity
- Normal drying time
- Does not affect colour accuracy
- Improves grinding properties

Recommendations for use
It is used as a catalyst in liner systems with polyurethane base Graf 250 B.

Storage
24 months, provided that the cans are closed and in normal storage conditions. It is strictly forbidden to expose the product to sun and moisture.

Notes
- It is recommended to avoid application of product in temperatures below 5ºC and above 30ºC.

Packaging: 2lt / 10lt drums

Technical data	
Resin:	Polyurethane resin
Density EN ISO 2811- 1:	0,95±0,02 gr/ml
Dry residue EN ISO 3251:	25%
Mix ratio with catalyst:	1 : 2
Viscosity:	35 ± 5 KU
Reaction time:	2 – 3 hours Also depending on environment conditions and diluent used
Time for grinding:	24 hours
VOC in the ready product (European Directive 2004/42/CE) (g/l):	≤ 10
TVOC ambient emissions, Simulation chamber ISO 16000- 9 (mg/m^3):	≤ 0.2

SMART 200 B

High quality transparent catalyst used for product Smart 200 B

Characteristics
- Light aroma
- Normal drying time
- Very resistant to yellowing
- Does not affect colour accuracy
- Improves grinding properties

Recommendations for use
It is used as a catalyst in liner systems with polyurethane base Smart 200 B.

Storage
24 months, provided that the cans are closed and in normal storage conditions. It is strictly forbidden to expose the product to sun and moisture.

Notes
- It is recommended to avoid application of product in temperatures below 5ºC and above 30ºC.

Packaging: 2lt / 10lt drums

Technical data	
Resin:	Polyurethane resin
Density EN ISO 2811- 1:	0,95±0,02 gr/ml
Dry residue EN ISO 3251:	25%
Mix ratio with catalyst:	1 : 2
Viscosity:	35 ± 5 KU
Reaction time:	2 – 3 hours Also depending on environment conditions and diluent used
Time for grinding:	24 hours
VOC in the ready product (European Directive 2004/42/CE) (g/l):	≤ 10
TVOC ambient emissions, Simulation chamber ISO 16000- 9 (mg/m^3):	≤ 0.2

DEUTSCH COLOR

SMART 300 B

High quality transparent catalyst used for product Smart 300 B

Characteristics
- Light aroma
- Normal drying time
- Very resistant to yellowing
- Does not affect colour accuracy
- Improves grinding properties

Recommendations for use
It is used as a catalyst in liner systems with polyurethane base Smart 300 B.

Storage
24 months, provided that the cans are closed and in normal storage conditions. It is strictly forbidden to expose the product to sun and moisture.

Notes
- It is recommended to avoid application of product in temperatures below 5ºC and above 30ºC.

Packaging: 2lt / 10lt drums

Technical data	
Resin:	Resina poliuretanica
Density EN ISO 2811- 1:	0,95±0,02 gr/ml
Dry residue EN ISO 3251:	25%
Mix ratio with catalyst:	1 : 2
Viscosity:	35 ± 5 KU
Reaction time:	2 – 3 hours Also depending on environment conditions and diluent used
Time for grinding:	24 hours
VOC in the ready product (European Directive 2004/42/CE) (g/l):	≤ 10
TVOC ambient emissions, Simulation chamber ISO 16000- 9 (mg/m^3):	≤ 0.2

SOL DC 1

Two component polyurethane based diluent, solvent-based.

Characteristics
Suitable for diluting all the polyurethane based systems. It is characterized by high transparency, having no effect on abrasion as well as having a glossy paint effect.

Recommendations for use
It is recommended to be used as a diluent for liner systems that will be applied to all wooden surfaces intended to be used for for furniture, doors, tables, chairs, various wooden objects, wooden toys etc. It can be used for furniture that will be exposed to outdoor and indoor spaces. It does not affect the physical and mechanical resistance of the final product.

Storage
36 months if stored in a dry place, away from heat sources, at a temperature between +5°C and +30°C. Protect it from frost.

Packaging: 10lt drums

Technical data	
Resin:	Solvent mixture
Density EN ISO 2811- 1:	0,85±0,02 gr/ml
Viscosity:	25 ± 5 KU
Dosage:	10 - 25% Depending on the product where it is applied
VOC in the ready product (European Directive 2004/42/CE) (g/l):	≤ 100
TVOC ambient emissions, Simulation chamber ISO 16000- 9 (mg/m³):	≤ 20

DEUTSCH COLOR

SOL DC 2 SLOW

Slow evaporative two-component solvent-based and polyurethane based diluent

Characteristics
Suitable for diluting all the polyurethane based systems. It is characterized by high transparency, having no effect on abrasion as well as having a glossy paint effect.

Recommendations for use
It is recommended to be used as a diluent for liner systems that will be applied to all wooden surfaces intended to be used for for furniture, doors, tables, chairs, various wooden objects, wooden toys etc. It can be used for furniture that will be exposed to outdoor and indoor spaces. It does not affect the physical and mechanical resistance of the final product.

Storage
36 months if stored in a dry place, away from heat sources, at a temperature between +5°C and +30°C. Protect it from frost.

Packaging: 10lt drums

Technical data	
Resin:	Solvent mixture
Density EN ISO 2811- 1:	0,85±0,02 gr/ml
Viscosity:	25 ± 5 KU
Dosage:	10 - 25% Depending on the product where it is applied
VOC in the ready product (European Directive 2004/42/CE) (g/l):	≤ 100
TVOC ambient emissions, Simulation chamber ISO 16000- 9 (mg/m³):	≤ 20

DEUTSCH COLOR

PRODUCTS ASSOCIATION

12.1. Associative products

12.2. Silicone

12.3. Concrete colors

MESH DC F90 5*5

Fiberglass mesh to strengthen the facades that are going to be repaired or for those that are applied in the thermal insulating

Unit of measurement	Pieces / box	Colors / other specifications
50m/roller	4 pcs / box	90 gr

MESH DC F110 5*5

Fiberglass mesh to strengthen the facades that are going to be repaired or for those that are applied in the thermal insulating

Unit of measurement	Pieces / box	Colors / other specifications
50m/roller	4 pcs / box	110 gr

MESH DC F125 5*5

Fiberglass mesh to strengthen the facades that are going to be repaired or for those that are applied in the thermal insulating

Unit of measurement	Pieces / box	Colors / other specifications
50m/roller	4 pcs / box	125 gr

MESH DC F145 5*5

Fiberglass mesh to strengthen the facades that are going to be repaired or for those that are applied in the thermal insulating

Unit of measurement	Pieces / box	Colors / other specifications
50m/roller	4 pcs / box	145 gr

MESH DC F160 5*5

Fiberglass mesh to strengthen the facades that are going to be repaired or for those that are applied in the thermal insulating

Unit of measurement	Pieces / box	Colors / other specifications
50m/roller	4 pcs / box	160 gr

MESH DC F110 10*10

Fiberglass mesh to strengthen facades that will be repaired or the mortar plasters of ceilings.

Unit of measurement	Pieces / box	Colors / other specifications
50m/roller	4 pcs / box	110 gr

ANCHORS

METAL ANCHORS

Metal wall anchors for fixing polystyrene panels, glass wool or stone wool, with metal elements of internal fixation and external plastic layers.

Name	Unit of measure	Pieces / pallets	Colors / other specifications
AN-100M Ø 10 with steel tip	200 pcs / box	48 pcs / pallet	10 cm
AN-120M Ø 12 with steel tip			12 cm
AN-140M Ø 14 with steel tip			14 cm
AN-160M Ø 16 with steel tip			16 cm

PLASTIC ANCHORS

Plastic wall anchors for fixing polystyrene panels, glass wool or stone wool, with metal elements of internal fixation and external plastic layers.

Name	Unit of measure	Pieces / pallets	Colors / other specifications
AN-100 with plastic tip	200 pcs / box	48 pcs / pallet	10 cm
AN-120 with plastic tip			12 cm
AN-140 with plastic tip			14 cm
AN-160 with plastic tip			16 cm

DEUTSCH COLOR

ANGLE DC-L 150

Angle bead for corners with mesh 145 gr 10X15X250 cm, resistant to alkali.

Unit of measurement	Pieces / pallets	Colors / other specifications
50 pcs / box	40 pcs / pallet	2.5 ml

ANGLE DC-L 100

Angle bead for corners with a mesh of 110 gr 10X10X250 cm

Unit of measurement	Pieces / pallets	Colors / other specifications
50 pcs / box	40 pcs / pallet	2.5 ml

GUTTER DC VLT 150

Gutters for balconies, with a mesh of 145 gr 10X15X250 cm, resistant to alkali.

Unit of measurement	Pieces / pallets	Colors / other specifications
20 pcs / box	40 pcs / pallet	2.5 ml

GUTTER DC VLT 100

Gutters for balconies with a mesh of 110 gr 10X10X250 cm

Unit of measurement	Pieces / pallets	Colors / other specifications
20 pcs / box	40 pcs / pallet	2.5 ml

TERMOSTART 53

A starter profile for thermal insulation system with PVC element, reinforced with a mesh of 145 gr, resistant to alkali and zinc profile. 0,5 length 2,0m.

Unit of measurement	Pieces / pallets	Colors / other specifications
10 pcs / box	40 pcs / pallet	2.0 ml/53mm

TERMOSTART 83

A starter profile for thermal insulation system with PVC element, reinforced with a mesh of 145 gr, resistant to alkali and zinc profile. 0,5 length 2,0m.

Unit of measurement	Pieces / pallets	Colors / other specifications
10 pcs / box	40 pcs / pallet	2.0 ml/83mm

TERMOSTART 103

A starter profile for thermal insulation system with PVC element, reinforced with a mesh of 145 gr, resistant to alkali and zinc profile. 0,5 length 2,0m.

Unit of measurement	Pieces / pallets	Colors / other specifications
10 pcs / box	40 pcs / pallet	2.0 ml/103mm

TERMOSTART PVC

PVC element, reinforced with a mesh of 145 gr, resistant to alkali and POL-START LOS profiles.

Unit of measurement	Pieces / pallets	Colors / other specifications
30 pcs / box	40 pcs / pallet	2.0 ml

SILICONE DC ACRYL
Acrylic silicone for general use, with adhesive and insulation properties

Unit of measurement	pcs/box	Colors / Other specifications
460 gr	24pcs/box	White

SILICONE DC SEALANT
Acetic silicone with adhesive properties on building materials, impermeable by water

Unit of measurement	pcs/box	Colors / Other specifications
270 ml	12pcs/box	Transparent
270 ml	12pcs/box	White

SILICONE DC ZERO SCHIMMEL
Mono-component, anti-mold, silicone-based adhesive, for very humid environments

Unit of measurement	pcs/box	Colors / Other specifications
280 ml	12pcs/box	Transparent
280 ml	12pcs/box	White

SILICONE DC ULTRAFORCE
Neutral silicone, with adhesive properties on building and metallic materials, water resistant.

Unit of measurement	pcs/box	Colors / Other specifications
280 ml	12pcs/box	Transparent

SILICONE DC ULTRACOLOR
Neutral silicone, with adhesion properties on metallic and building materials, water resistant

Unit of measurement	pcs/box	Colors / Other specifications
280 ml	12pcs/box	Transparent

SILICONE DC HOLTZFIX
Neutral silicone, with adhesion properties on metallic and building materials, water resistant

Unit of measurement	pcs/box	Colors / Other specifications
280 ml	12pcs/box	Transparent

DC METAL SIL
SILICONE for the isolation and adhesion of metals.

Unit of measurement	pcs/box	Colors / Other specifications
280 ml	12pcs/box	Transparent

DC SEAL Z-50
Neutral adhesive with adhesion properties on building and metal materials, water resistant

Unit of measure	pcs/box	Colors / Other specifications
300 ml	12pcs/box	Grey

DC F-300
Neutral adhesive with adhesion properties on building and metal materials, water resistant.

Unit of measurement	pcs/box	Colors / Other specifications
300 ml	12pcs/box	Black

2K ANCHOR
Neutral adhesive with adhesion properties on building and metal materials, water resistant.

Unit of measurement	pcs/box	Colors / Other specifications
300 ml	12pcs/box	Grey

PU SEAL 60
Neutral adhesive with adhesion properties on building and metal materials, water resistant.

Unit of measurement	pcs/box	Colors / Other specifications
300 ml	12pcs/box	Grey

PU SEAL 80
Neutral adhesive with adhesion properties on building and metal materials, water resistant.

Unit of measurement	pcs/box	Colors / Other specifications
300 ml	12pcs/box	Grey

A-11
Polyurethane insulation foam with excellent qualities for acoustic and thermal insulation.

Unit of measurement	pcs/box
750ml	12pcs/box

A-11 PROFESSIONAL
Polyurethane insulation foam with excellent qualities for acoustic and thermal insulation.

Unit of measurement	pcs/box
750ml	12pcs/box

DC CEM COLOR YELLOW

Dye for cement and finishing. It is suitable for coloring mortar, for tiles or colored concrete etc.

Unit of measurement	pcs/box	Colors / Other specifications
2 Kg/Plastic bottle	8pcs/box	Yellow

DC CEM COLOR RED

Dye for cement and finishing. It is suitable for coloring mortar, for tiles or colored concrete etc.

Unit of measurement	pcs/box	Colors / Other specifications
2 Kg/Plastic bottles	8pcs/box	Red

DC CEM COLOR BROWN

Dye for cement and finishing. It is suitable for coloring mortar, for tiles or colored concrete etc.

Unit of measurement	pcs/box	Colors / Other specifications
1.5 Kg/Plastic bottle	8pcs/box	Brown

DC CEM COLOR BLACK

Dye for cement and finishing. It is suitable for coloring mortar, for tiles or colored concrete etc.

Unit of measurement	pcs/box	Colors / Other specifications
1.5 Kg/Plastic bottle	8pcs/box	Black

DC CEM COLOR BLUE

Dye for cement and finishing. It is suitable for coloring mortar, for tiles or colored concrete etc.

Unit of measurement	pcs/box	Colors / Other specifications
1 Kg/Plastic bottle	8pcs/box	Blue

DC CEM COLOR GREEN

Dye for cement and finishing. It is suitable for coloring mortar, for tiles or colored concrete etc.

Unit of measurement	pcs/box	Colors / Other specifications
1.3 Kg/Plastic bottle	8pcs/box	Green

DEUTSCH COLOR