

**“STANDARD SOLUTIONS for everyday requirements,
SPECIFIC SOLUTIONS for special requirements”**

This is our philosophy here at Opera, because we want every one of our products to deliver top results.

Now and in the future.

Our strengths:

- Easy to use: our products are designed to meet all building industry needs quickly and effortlessly.
- A precise goal. Opera products are focused on a clear mission: to find the right balance between the ideas of designers and the needs of our users.
- Constant technical assistance: thanks to the professionalism and availability of our engineering department, we can guarantee our customers prompt and precise assistance both before and after the sale.
- Certification: the entire range of Opera products is certified as EU-compliant.
- Best price/quality ratio: technologically advanced materials at the right price, so that our solutions are always economically attractive, and that means both in useful life and costs terms.
- Ongoing research and development: over 30 years of non-stop business in the specialist building industry means we can guarantee our customers constantly evolving techniques and a company that always keeps pace with the market.



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Sigilfuga FS

Cement sealant for joints ranging from 1 to 4 mm

Form:	Powder, 13 colours
Packs:	5 x 5 kg - 20 kg
Pallet:	600 kg - 1200 kg
Quantities required:	See chart

Main features

- One-part
- High workability
- Easy to clean
- High abrasion resistance
- Frostproof

Storage

Sigilfuga FS can be kept for up to 12 months if stored in a dry place, in its original packaging.

Quality and Environmental Standards

Sigilfuga FS undergoes constant, careful testing at our laboratories, in compliance with the legislation in force (UNI EN ISO 9001/2000).

Fields of application

Sigilfuga FS is suitable for the following:

- indoor and outdoor grouting for single and double-fired ceramic tiles, as well as porcelain stoneware, vitrified ceramics, and klinker tiles, and glass mosaic floor and wall tiles;
- for joint filling with marble, granite, natural or artificial stones and bricks;
- for sealing joints ranging from 1 to 4 mm in width;
- for sealing joints on outdoor walls and/or swimming pools.

Preparation: the joints between the tiles must be free of dust and laying residue and must be at least two-thirds empty. The laying bed must be dry. If using absorbent materials and if room temperatures are over 25°C, pour water onto the joints until it is no longer absorbed and then wait a few minutes before beginning grouting.

Application: to ensure the product is mixed correctly, the clean mixing water or **Sigilflex** latex should be poured into the container first, followed by the sealant powder. If the mixture is too runny, the end colour may not be even and efflorescence may occur. Use a mechanical mixer at low speed to ensure an even, lump-free paste. Leave to rest for a few minutes and then remix. The mortar is now ready for application. When applying to floor tiles, the mixture can be made runnier by increasing the amount of water or **Sigilflex** used (approx. 24%). The mixing ratio (17-20%) may vary depending on the colour used. If the mixture is already hardening, do not attempt to restore workability by adding water. Do not add other aggregates or hydraulic binders to **Sigilfuga FS**.

Spread the mixture with a rubber trowel, working crosswise to the joints. Wait for the sealant to set partly (it becomes opaque in approx. 10-20 minutes) and proceed with the final cleaning of the tile surface using a damp sponge and rinsing it off frequently. The cleaning must be carried out completely, removing any rings with a cloth. Cleaning too early, when the mixture is still wet, would remove some of the sealant from the joints and may cause streaking in the colour, cleaning once the mixture is set, on the other hand, would be much harder. It is important to pick exactly the right moment for cleaning, i.e. when the mixture is partially set. We recommend you proceed with the filling by working in small enough areas to be able to fill the joints and clean the tiles before the filler sets fully. To facilitate removal of the set mixture from tiles, it is advisable to start with a damp abrasive felt pad or a single disk rotary floor machine, before cleaning with a sponge.

If, following inadequate cleaning, the surface still has sealant residues on it or rings, acidic detergent **De-tergente AC** can be used. You must wait 7 days after grouting before using it and follow the instructions on the pack exactly.

Warning

- Do not use **Sigilfuga FS** for joints larger than 4 mm;
- the mixing water must be clean and salt-free;
- measure out the amount of water required accurately to prevent the formation of efflorescence on the joint surface;
- do not add **Sigilflex** when filling joints between materials with porous surfaces, such as terra cotta or polished stoneware. In any event, check cleanability before application and, if necessary, treat beforehand with **Idrosilk**;
- when mixing with **Sigilflex latex**, always use the same proportions of admixture to prevent colour differences in the sealant
- do not use **Sigilfuga FS** for acid resistant joints which must be able to withstand contact with chemicals;
- do not use **Sigilfuga FS** for flexible dividing joints;
- failure to follow the pre-laying operation times specified could result in efflorescence and the formation of limescale deposits brought to the surface by rising damp.

Quantities required (per mm of width): Sigilfuga FS for joints ranging from 1 to 4 mm

Tile size	2 x 2	2.5 x 2.5	10 x 10	15 x 15	20 x 20	20 x 25	30 x 30	40 x 40	30 x 60
Quantity required (kg/m ²)	0.26	0.21	0.17	0.15	0.11	0.10	0.08	0.06	0.06

Technical and application specifications

Hazard classification as per Directive 99/45/EC:	irritant
Mixing water:	approx. 30-32% of weight
Specific weight of mixture:	2.0 g/cm³
Mixture pH:	over 12
Pot life:	approx. 2 hours
Application temperature:	from +5°C to +35°C
Joint sealant hardening time with tiling laid using standard adhesives:	approx. 4-7 hours (on walls) 1 day (on floors)
Joint sealant hardening time with tiling laid using fast-setting adhesives:	approx. 2 hours (on walls) approx. 3 hours (on floors)
Walk-over time:	24 hours
Ready for use:	approx. 7 days
FINAL PERFORMANCE SPECIFICATIONS EN 13888 (N/mm²)	
Resistance to bending after 28 days (EN 12808-3):	3.5 N/mm²
Resistance to compression after 28 days (EN 12808-3):	27 N/mm²
Resistance to bending after freeze-thaw cycle (EN 12808-3):	3.6 N/mm²
Resistance to compression after freeze-thaw cycle (EN12808-3):	32 N/mm²
Resistance to acids:	fair if over pH3
Resist. to damp, solvents, alkalis, oils, ageing:	good
Temperature resistance:	from -30°C to +90°C
Harmonised customs code:	38245090

Measurement of data at 23°C/50% Residual Humidity and no ventilation. The data may be considerably modified by the conditions of use.



Sigilfuga FL

Cement sealant for joints ranging from 3 to 15 mm

Form: Powder, 10 colours
Packs: 5 x 5 kg - 25 kg
Pallet: 600 kg - 1500 kg
Quantities required: See chart

Main features

- One-part
- High workability
- Easy to clean
- High abrasion resistance
- Frostproof

Storage

Sigilfuga FL can be kept for up to 12 months if stored in a dry place in its original packaging.

Quality and Environmental Standards

Sigilfuga FL undergoes constant, careful testing at our laboratories, in compliance with the legislation in force (UNI EN ISO 9001/2000).

Fields of application

Sigilfuga FL is suitable for the following:

- for sealing joints ranging from 3 to 15 mm in width;
- indoor and outdoor grouting for single and double-fired ceramic tiles, as well as porcelain stoneware, vitreous ceramics, and klinker tiles, and glass mosaic floor and wall tiles;
- for joint filling with marble, granite, natural or artificial stones and bricks;
- for sealing joints on outdoor walls and/or swimming pools.

Preparation: the joints between the tiles must be free of dust and laying residue and must be at least two-thirds empty. The laying bed must be dry. If using absorbent materials and if room temperatures are over 25°C, pour water onto the joints until it is no longer absorbed and then wait a few minutes before beginning grouting.

Application: to ensure the product is mixed correctly, the clean mixing water or **Sigilflex** latex should be poured into the container first, followed by the sealant powder. If the mixture is too runny, the end colour may not be even and efflorescence may occur. Use a mechanical mixer at low speed to ensure an even, lump-free paste. Leave to rest for a few minutes and then remix. The mortar is now ready for application. When applying to floor tiles, the mixture can be made runnier by increasing the amount of water or **Sigilflex** used (approx. 24%). The mixing ratio (17-20%) may vary depending on the colour used. If the mixture is already hardening, do not attempt to restore workability by adding water. Do not add other aggregates or hydraulic binders to **Sigilfuga FL**.

Spread the mixture with a rubber trowel, working crosswise to the joints. Wait for the sealant to set partly (it becomes opaque in approx. 10-20 minutes) and proceed with the final cleaning of the tile surface using a damp sponge and rinsing it off frequently. The cleaning must be carried out completely, removing any rings with a cloth. Cleaning too early, when the mixture is still wet, would remove some of the sealant from the joints and may cause streaking in the colour, cleaning once the mixture is set, on the other hand, would be much harder. It is important to pick exactly the right moment for cleaning, i.e. when the mixture is partially set. We recommend you proceed with the filling working in small enough areas to be able to fill the joints and clean the tiles before the filler sets fully. To facilitate removal of the set mixture from tiles, it is advisable to start with a damp abrasive felt pad or a single disk rotary floor machine, before cleaning with a sponge.

If, following inadequate cleaning, the surface still has sealant residues on it or rings, acidic detergent **De-tergente AC** can be used. You must wait 7 days after grouting before using it and follow the instructions on the pack exactly.

Warning

- Do not use **Sigilfuga FL** for joints smaller than 3 mm or larger than 15 mm;
- the mixing water must be clean and salt-free;
- measure out the amount of water required accurately to prevent the formation of efflorescence on the joint surface;
- do not add **Sigilflex** when filling joints between materials with porous surfaces, such as terra cotta or polished stoneware. In any event, check cleanability before application and, if necessary, treat beforehand with **Idrosilk**;
- when mixing with **Sigilflex** latex, always use the same proportions of admixture to prevent colour differences in the sealant;
- do not use **Sigilfuga FL** for acid resistant joints which must be able to withstand contact with chemicals;
- do not use **Sigilfuga FL** for flexible dividing joints;
- failure to follow the pre-laying operation times specified could result in efflorescence and the formation of limescale deposits brought to the surface by rising damp.

Quantities required (per mm of width): Sigilfuga FL for joints ranging from 3 to 15 mm

Tile size	10 x 10	12 x 24	15 x 15	20 x 25	30 x 30	40 x 40	30 x 60
Quantity required (kg/m ²)	0.18	0.15	0.16	0.10	0.08	0.06	0.06

Technical and application specifications

Hazard classification as per Directive 99/45/EC:	irritant
Mixing water:	approx. 17-20% of weight
Specific weight of mixture:	2.0 g/cm³
Mixture pH:	over 12
Pot life:	approx. 2 hours
Application temperature:	from +5°C to +35°C
Joint sealant hardening time with tiling laid using standard adhesives:	approx. 4-7 hours (on walls) 1 day (on floors)
Joint sealant hardening time with tiling laid using fast-setting adhesives:	approx. 2 hours (on walls) approx. 3 hours (on floors)
Walk-over time	24 hours
Ready for use:	approx. 7 days
FINAL PERFORMANCE SPECIFICATIONS EN 13888 (N/mm²)	
Resistance to bending after 28 days (EN 12808-3):	3.5 N/mm²
Resistance to compression after 28 days (EN 12808-3):	27 N/mm²
Resistance to bending after freeze-thaw cycle (EN 12808-3):	3.6 N/mm²
Resistance to compression after freeze-thaw cycle (EN 12808-3):	32 N/mm²
Resistance to acids:	fair if over pH3
Resist. to damp, solvents, alkalis, oils, ageing:	good
Temperature resistance:	from -30°C to +90°C
Harmonised customs code:	38245090

Measurement of data at 23°C/50% Residual Humidity and no ventilation. The data may be considerably modified by the conditions of use.



Sigilflex

Elasticising admixture for cement sealants

Form:	White latex
Packs:	10 kg - 5 kg
Pallet:	600 kg - 450 kg
Quantities required:	See technical specifications

Main features

Product mixed with **Sigilfuga FS** or **Sigilfuga FL**

- Reduced absorption and porosity
- Better elasticity
- Increased mechanical resistance
- Increased water repellence

Storage

Sigilflex can be kept for up to 24 months if stored in its original packaging, in temperatures no lower than 5°C and away from direct sunlight.

Quality and Environmental Standards

Sigilflex undergoes constant, careful testing at our laboratories, in compliance with the legislation in force (UNI EN ISO 9001/2000).

Fields of application

Sigilflex mixed with **Sigilfuga** is suitable for:

- indoor and outdoor grouting for single and double-fired ceramic tiles, as well as porcelain stoneware, vitreous ceramics, and glass mosaic floor and wall tiles;
- for grouting for high-traffic flooring;
- for grouting joints in flooring or wall tiling exposed to mechanical or thermal stress (outdoor walls, balconies, terraces, motor traffic areas, areas exposed to freezing/thawing);
- for grouting swimming pools, baths, and areas frequently in contact with water zone or subject to slight chemical action generated by chlorine, salt water, organic substances, detergents and disinfectants;
- on heated screeds.

Preparation: the joints between the tiles must be free of dust and laying residue and must be at least two-thirds empty. The laying bed must be dry. If using absorbent materials and if room temperatures are over 25°C, pour water onto the joints until it is no longer absorbed and then wait a few minutes before beginning grouting.

Application: to ensure the product is mixed correctly, the **Sigilflex** should be poured into the container first, followed by the sealant powder. If the mixture is too runny, the end colour may not be even and standard mechanical resistance may occur. Use a mechanical mixer at low speed to ensure an even, lump-free paste. Leave to rest for a few minutes and then remix briefly. The mortar is now ready for application. If the mixture is already hardening, do not attempt to restore workability by adding water. Spread the mixture with a rubber trowel, working crosswise to the joints. Wait for the sealant + **Sigilflex** to set partly and proceed with the final cleaning of the tile surface using a damp sponge and rinsing it off very frequently. The cleaning must be carried out completely, removing any rings with a cloth. Cleaning too early, when the mixture is still wet, would remove some of the sealant from the joints, cleaning once the mixture is set, on the other hand, would be much harder. It is important to pick the right moment for cleaning, i.e. when the mixture is partially set. We recommend you proceed with the filling by working in small enough areas to be able to fill the joints and clean the tiles before the filler mixed with **Sigilflex** sets fully.

To facilitate removal of the set mixture from tiles, it is advisable to start with a damp abrasive felt pad or a single disk rotary floor machine, before cleaning with a sponge.

If, following inadequate cleaning, the surface still has sealant residues on it or rings, acidic detergent **De-tergente AC** can be used. You must wait 3 days after grouting before using it and follow the instructions on the pack exactly.

Warning

- Do not use for mixing grouts for filling joints between materials with porous surfaces, such as terra cotta or polished stoneware. In any event, check cleanability before application and, if necessary, treat beforehand with Idrosilk;
- when mixing several mixtures, always use the same proportions of **Sigiflex** to prevent colour differences in the sealant;
- never mix **Sigiflex** with **Sigicolor**;
- do not use **Sigiflex** for acid resistant joints which must be able to withstand contact with chemicals.

Technical and application specifications

Hazard classification as per Directive 99/45/EC:	none	
Product mixed with:	Sigifuga FS (28-30% of weight) Sigifuga FL (18-20% of weight)	
Specific weight of Sigifuga FL/FS + Sigiflex mixture:	2.0 g/cm³	
Mixture pH:	approx. 12	
Pot life:	approx. 2 hours	
Application temperature:	from +5°C to +35°C	
Walk-over time	24 hours	
Ready for use:	8/10 days (swimming pools may also be filled at this time)	
FINAL PERFORMANCE SPECIFICATIONS EN 13888 (N/mm²)		
Product mixed with:	Sigifuga FS	Sigifuga FL
Resistance to bending after 28 days (EN 12808-3):	9.0 N/mm²	10.0 N/mm²
Resistance to compression after 28 days (EN 12808-3):	31.0 N/mm²	32.0 N/mm²
Resistance to compression after freeze-thaw cycles (EN 12808-3):	35.0 N/mm²	40.0 N/mm²
Resistance to bending after freeze-thaw cycles (EN 12808-3):	3.4 N/mm²	4.2 N/mm²
Water absorption after 30 minutes (g) (EN 12808-5):	1.2 g	0.5 g
Water absorption after 240 minutes (g) (EN 12808-5):	4.0 g	1.0 g
Shrinkage (mm/m) (EN 12808-4)	2.0 mm/m	1.4 mm/m
Resistance to acids:	fair	
Resist. to damp, solvents, alkalis, oils, ageing:	excellent	
Room/ambient temperature:	from -30°C to +90°C	
Harmonised customs code:	39039000	

Measurement of data at 23°C/50% Residual Humidity and no ventilation. The data may be considerably modified by the conditions of use.



Sigilcolor

High-tech, high-performance cement sealant for joints ranging from 1 to 20 mm

Form:	Powder, 32 colours
Packs:	5 x 5 kg - 25 kg
Pallet:	600 kg - 1500 kg
Quantities required:	See chart

Main features

- One-part
- High workability
- Easy to clean
- Frostproof
- Water-repellent
- Perfectly even colour
- Silky finish

Storage

Sigilcolor can be kept for up to 12 months if stored in a dry place and in its original packaging.

Quality and Environmental Standards

Sigilcolor undergoes constant, careful testing at our laboratories, in compliance with the legislation in force (UNI EN ISO 9001/2000).

Fields of application

Sigilcolor is suitable for the following:

- indoor and outdoor grouting for single and double-fired ceramic tiles, as well as porcelain stoneware, vitreous ceramics, and klinker tiles, and glass mosaic floor and wall tiles;
- for joint filling with marble, granite, natural or artificial stones and bricks;
- for sealing joints ranging from 1 to 20 mm in width;
- for sealing joints on outdoor walls and/or swimming pools;
- for sealing joints in areas exposed to intense traffic.

Preparation: the joints must be free of dust and laying residue and must be at least two-thirds empty. The laying bed must be dry. If using absorbent materials and if room temperatures are over 25°C, pour water onto the joints until it is no longer absorbed and then wait a few minutes before beginning grouting.

Application: to ensure the product is mixed correctly, the clean mixing water should be poured into the container first, followed by the sealant powder. If the mixture is too runny, the end colour may not be even and efflorescence may occur. Use a mechanical mixer at low speed to ensure an even, lump-free paste. Leave to rest for a few minutes and then remix. The mortar is now ready for application. When applying to floor tiles, the mixture can be made runnier by increasing the amount of water used (approx. 30%). The mixing ratio (25-27%) may vary depending on the colour used. If the mixture is already hardening, do not attempt to restore workability by adding water. Do not add other aggregates or hydraulic binders to **Sigilcolor**. Spread the mixture with a rubber trowel, working crosswise to the joints. Wait for the sealant to set partly (it becomes opaque in approx. 10-20 minutes) and proceed with the final cleaning of the tile surface using a damp sponge and rinsing it off frequently. The cleaning must be carried out completely, removing any rings with a cloth. Cleaning too early, when the mixture is still wet, would remove some of the sealant from the joints and may cause streaking in the colour, cleaning once the mixture is set, on the other hand, would be much harder. It is important to pick exactly the right moment for cleaning, i.e. when the mixture is partially set. We recommend you proceed with the filling by working in small enough areas to be able to fill the joints and clean the tiles before the filler sets fully. To facilitate removal of the set mixture from tiles, it is advisable to start with a damp abrasive felt pad or a single disk rotary floor machine, before cleaning with a sponge. If, following inadequate cleaning, the surface still has sealant residues on it or rings, acidic detergent **Detergente AC** can be used. You must wait 7 days after grouting before using it and follow the instructions on the pack exactly.

**Quantities required (per mm of width):
Sigicolor for joints ranging from 1 to 20 mm**

Tile size	2 x 2	2.5 x 2.5	10 x 10	15 x 10	12 x 24	20 x 20	20 x 25	30 x 30	40 x 40	30 x 60
Quantity required (kg/m ²)	0.26	0.21	0.17	0.15	0.14	0.11	0.10	0.08		0.06

Technical and application specifications

Hazard classification as per Directive 99/45/EC:	whites: no greys: irritant
Mixing water:	approx. 25-27% of weight
Specific weight of mixture:	2.0 g/cm³
Mixture pH:	approx. 11
Pot life:	approx. 20 minutes
Application temperature:	from +5°C to +35°C
Joint sealant hardening time with tiling laid using standard adhesives:	approx. 4-7 hours (on walls) 1 day (on floors)
Joint sealant hardening time with tiling laid using fast-setting adhesives:	approx. 2 hours (on walls) approx. 3 hours (on floors)
Walk-over time	24 hours
Ready for use:	approx. 7 days
FINAL PERFORMANCE SPECIFICATIONS EN 13888 (N/mm²)	
Resistance to bending after 28 days (EN 12808-3):	7.0 N/mm²
Resistance to compression after 28 days (EN 12808-3):	30 N/mm²
Resistance to bending after freeze-thaw cycle (EN 12808-3):	6.5 N/mm²
Resistance to compression after freeze-thaw cycle (EN 12808-3):	31 N/mm²
Resistance to acids:	good if over pH 3
Resist. to damp, solvents, alkalis, oils, ageing:	excellent
Temperature resistance:	from -30°C to +90°C
Harmonised customs code:	38245090

Measurement of data at 23°C/50% Residual Humidity and no ventilation. The data may be considerably modified by the conditions of use.

Warning

- The mixing water must be clean and salt-free;
- measure out the amount of water required accurately to prevent the formation of efflorescence on the joint surface;
- do not add **Sigilflex**;
- do not use **Sigicolor** for acid resistant joints which must be able to withstand contact with chemicals;
- do not use **Sigicolor** for flexible dividing joints;
- failure to follow the pre-laying operation times specified could result in efflorescence and the formation of limescale deposits brought to the surface by rising damp.



Sigilcolor Goccia

Anti-mould, water-repellent, cement sealant for joints ranging from 1 to 20 mm

Joint fillers Sigilcolor Goccia

Form:	Powder, 12 colours
Packs:	5 x 5 kg
Pallet:	600 kg
Quantities required:	See chart

Main features

- One-part
- Anti-mould
- Active against efflorescence
- Highly water-repellent with droplet effect
- Stainproof
- High mechanical resistance
- Easy Clean Technology

Storage

Sigilcolor Goccia can be kept for up to 12 months if stored in a dry place and in its original packaging.

Quality and Environmental Standards

Sigilcolor Goccia undergoes constant, careful testing at our laboratories, in compliance with the legislation in force (UNI EN ISO 9001/2000).

Fields of application

Sigilcolor Goccia is suitable for the following:

- for sealing joints ranging from 1 to 20 mm;
- indoor and outdoor grouting for single and double-fired ceramic tiles, as well as porcelain stoneware, vitreous ceramics, klinker and glass mosaic floor and wall tiles;
- for joint filling with marble, granite, natural or artificial stones and bricks;
- for sealing joints between glass bricks;
- for application to surfaces exposed to mechanical and thermal stress (outdoor walls, terraces, swimming pools, heated floors, public buildings);
- for sealing joints in kitchens and bathrooms with tiled-in units;
- for filling joints of up to 20 mm and to guarantee a smooth, easy-to-clean finish.

Preparation: the joints must be free of dust and laying residue and must be at least two-thirds empty. The laying bed must be dry. If using absorbent materials and if room temperatures are over 25°C, pour water onto the joints until it is no longer absorbed and then wait a few minutes before beginning grouting.

Application: to ensure the product is mixed correctly, the mixing water should be poured into the container first, followed by the sealant powder. If the mixture is too runny, the end colour may not be even and substandard mechanical resistance may occur. Use a mechanical mixer at low speed to ensure an even, lump-free paste. Since **Sigilcolor Goccia** contains a high level of admixtures, the mixing time required is longer. Mix **Sigilcolor Goccia** with clean water (25-27% depending on the colour); when grouting floor tiles, the mixture can be made runnier by using more water (approx. 30%). Do not add other aggregates or hydraulic binders to **Sigilcolor Goccia**. Leave to rest for a few minutes and then remix briefly. The mortar is now ready for application. If the mixture is already hardening, do not attempt to restore workability by adding water. Spread the mixture with a rubber trowel, working crosswise to the joints. Wait for the sealant to set partly (it becomes opaque in approx. 15-30 minutes) and proceed with the final cleaning of the tile surface using a damp sponge and rinsing it off very frequently. The cleaning must be carried out completely, removing any rings with a cloth. Cleaning too early, when the mixture is still wet, would remove some of the sealant from the joints, cleaning once the mixture is set, on the other hand, would be much harder. It is important to pick the right moment for cleaning, i.e. when the mixture is partially set. We recommend you proceed with the filling by working in small enough areas to be able to fill the joints and clean the tiles before the filler sets fully. To facilitate removal of the set mixture from tiles, it is advisable to start with a damp abrasive felt pad or a single disk rotary floor machine, before cleaning with a sponge. If, following inadequate cleaning, the surface still has sealant residues on it or rings, acidic detergent **Detergente AC** can be used. You must wait 7 days after grouting before using it and follow the instructions on the pack exactly.

**Quantities required (per mm of width):
Sigicolor Goccia for joints ranging from 1 to 20 mm**

Tile size	2 x 2	2.5 x 2.5	10 x 10	15 x 10	12 x 24	20 x 20	20 x 25	30 x 30	40 x 40	30 x 60
Quantity required (kg/m ²)	0.26	0.21	0.17	0.15	0.14	0.11	0.10	0.08		0.06

Technical and application specifications

Hazard classification as per Directive 99/45/EC:	whites: no - greys: irritant
Mixing water:	approx. 25-27% of weight
Specific weight of mixture:	2.0 g/cm³
Mixture pH:	approx. 11
Pot life:	approx. 20 minutes
Application temperature:	from +5°C to +35°C
Joint sealant hardening time with tiling laid using standard adhesives:	approx. 4-7 hours (on walls) 1 day (on floors)
Joint sealant hardening time with tiling laid using fast-setting adhesives:	approx. 2 hours (on walls) approx. 3 hours (on floors)
Walk-over time	24 hours
Ready for use:	3 days (7 days for baths)
FINAL PERFORMANCE SPECIFICATIONS EN 13888 (N/mm²)	
Resistance to bending after 28 days (EN 12808-3):	8.8 N/mm²
Resistance to compression after 28 days (EN 12808-3):	40 N/mm²
Resistance to bending after freeze-thaw cycle (EN 12808-3):	8.8 N/mm²
Resistance to compression after freeze-thaw cycle (EN 12808-3):	40 N/mm²
Resistance to abrasion after 28 days (EN 12808-2):	≤1000 mm³
Water absorption after 30 minutes (EN 12808-5):	≤0.5 g
Water absorption after 240 minutes (EN 12808-5):	≤1.0 g
Resistance to acids:	fair if over pH3
Resist. to damp, solvents, alkalis, oils, ageing:	excellent
Temperature resistance:	from -30°C to +90°C
Harmonised customs code:	38245090

Measurement of data at 23°C/50% Residual Humidity and no ventilation. The data may be considerably modified by the conditions of use.

Warning

- The mixing water must be clean and salt-free;
- before filling joints between materials with porous surfaces, such as terra cotta or polished stoneware, check their cleanability.
- Proceed by grouting small areas and cleaning them completely before the sealant sets;
- do not use **Sigicolor Goccia** for acid resistant joints which must be able to withstand contact with chemicals;
- colour differences or unevenness may occur in the following events: a) when the tiles are laid in a damp place; b) when the absorption levels of the base are irregular.



Fugapox

Acid-resistant two-part epoxy sealant

Form:	Part A: paste, 6 colours Part B: pale yellow liquid
Packs:	10 kg - 3 kg
Pallet:	480 kg - 180 kg
Quantities required:	See chart

Main features

- Two-part
- Acid-resistant
- Waterproof
- High mechanical resistance

Storage

Fugapox can be kept for up to 12 months if stored in its original packaging in temperatures no lower than +5°. Keep away from direct sunlight.

Quality and Environmental Standards

Fugapox undergoes constant, careful testing at our laboratories, in compliance with the legislation in force (UNI EN ISO 9001/2000).

Fields of application

Fugapox is suitable for the following:

- as an acid-resistant grout for floor and wall tiling both indoors and out. For joints ranging from 3 to 20 mm in width;
- for grouting swimming pools, spa baths, water conditioning tanks;
- for grouting surfaces required to meet specific standards concerning hygiene, chemical resistance and cleanability (e.g. hospitals and food and industrial laboratories);
- for grouting work tops in laboratories, kitchens and bathrooms with tiled-in units;
- for grouting joints between glass bricks.

Preparation: the joints between the tiles must be free of dust and laying residue and must be at least two-thirds empty. The laying bed must be dry.

Application: the two parts of **Fugapox** are already measured out (9.4 kg part A and 0.6 kg part B). Pour part B (accelerator) into the pot containing part A and mix with a mechanical mixer at low speed (max. 150 rpm, to prevent too much air being mixed in) until the parts are perfectly blended. The mixture consistency and hardening time depend on the temperature (ideal temperature: +23°C). If the mixture is already hardening, do not attempt to restore workability by adding solvents. Spread the mixture over the tiles with a rubber trowel, working crosswise to the joints. Proceed by immediately cleaning the tile surface, pouring plenty of water over the tiling and sponging it off several times with an abrasive sponge, rinsing and changing it frequently. The cleaning must be completed before the **Fugapox** sets. Once set, cleaning is almost impossible. We recommend you proceed with the filling by working in small enough areas to be able to fill the joints and clean the tiles before the product sets fully.

Technical and application specifications

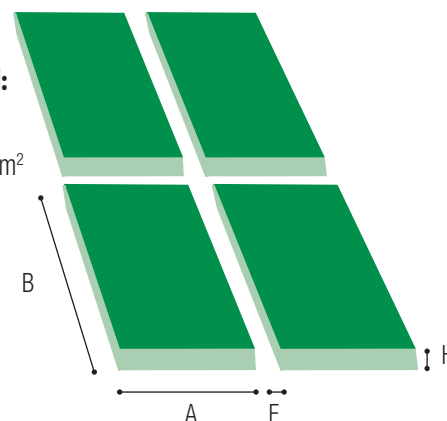
Hazard classification as per Directive 99/45/EC:	part A: irritant - part B: irritant
Specific weight of mixture:	1.54 g/cm³
Pot life:	approx. 45 minutes
Mixing ratio:	part A: 9.4 - part B: 0.6
Application temperature:	from +5°C to 35°C
Joint sealant hardening time for tiling laid using standard adhesives:	approx. 4-7 hours (on walls) 1 day (on floors)
Joint sealant hardening time for tiling laid using fast-setting adhesives:	approx. 2 hours (on walls) approx. 3 hours (on floors)
Walk-over time	24 hours
Ready for use:	approx. 3 days
FINAL PERFORMANCE SPECIFICATIONS EN 12003	
Initial cutting resistance:	24 N/mm²
Cutting resistance after immersion in water:	24 N/mm²
Cutting resistance after thermal shock:	23 N/mm²
Acid resistance:	excellent (see chart)
Resistance to damp, solvents, oil, alkalis and ageing:	excellent (see chart)
Temperature resistance:	from -20°C to +90°C
Harmonised customs code:	35069100

Measurement of data at 23°C/50% Residual Humidity and no ventilation. The data may be considerably modified by the conditions of use.

Formula for calculating amounts required:

$$\frac{(A + B)}{(A \times B)} \times H \times F \times 1.56 = \text{amount required in kg/m}^2$$

A = tile width in mm
 B = tile length in mm
 H = tile thickness in mm
 F = joint width in mm


Chemical resistance of ceramic tiling with joints filled using Fugapox in industrial settings

Group	Name	Conc.	Continuous use (20° C)	Intermittent use (20° C)
Acids	Acetic	2.5%	+	+
		5%	(+)	+
		10%	-	-
	Hydrochloric	37%	(+)	+
		Chromic	20%	-
	Citric	10%	-	-
	Formic	2.5%	+	+
		10%	-	-
	Lactic	2.5%	+	+
		5%	(+)	+
		10%	-	(+)
	Nitric	25%	(+)	+
		50%	-	-
	Oleic		-	-
	Phosphoric	50%	(+)	+
75%		-	-	
Sulphuric	1.5%	+	+	
	50%	(+)	+	
	98%	-	-	
Tannic	10%	(+)	+	
Tartaric	10%	+	+	
Oxalic	10%	+	+	
Alkalis, Saturated Solutions	Ammonia	25%	+	+
	Caustic Soda	50%	+	+
	Caustic Potash	50%	+	+
	Sodium Hypochlorite			
	Active Chlorine	6.5 g/l	(+)	+
Active Chlorine	162 g/l		-	

Key: + Excellent resistance / (+) Fair resistance / - Poor resistance

Warning

- Mix until the two parts are perfectly blended;
- do not use for filling joints between materials with porous surfaces, such as terra cotta, and check the cleanability of the material you intend to apply it to beforehand.
- clean the surfaces of the material completely before the **Fugapox** hardens. Once set, it is extremely difficult to clean off;
- working in high temperatures or on surfaces exposed to direct sunlight reduces the product's workability time considerably;
- bear in mind that temperatures below +12°C can also lengthen the setting time considerably and workability may be reduced due to the hardness of the mixture;
- prolonged contact with acids and oxidants causes streaking;
- wait until the product is fully hardened before exposing to chemicals;
- do not use **Fugapox** for flexible dividing joints.



Fugapox Style

Epoxy sealant with accenting effect

Form: Part. A: paste, 7 colours
Part. B: pale yellow liquid
Part. C: powder, 4 finishes

Packs: 2 x 2.5 kg

Pallet: 100 kg

Quantities required: See chart

Main features

- Stainproof
- Acid-resistant
- Waterproof
- High mechanical resistance
- Stylish finish
- Easy Clean Technology
- Does not yellow

Storage

Fugapox Style can be kept for up to 12 months if stored in its original packaging in temperatures no lower than +5°. Keep away from direct sunlight.

Quality and Environmental Standards

Fugapox Style undergoes constant, careful testing at our laboratories, in compliance with the legislation in force (UNI EN ISO 9001/2001).

Fields of application

Fugapox Style is suitable for the following:

- as an acid-resistant grout for floor and wall tiling both indoors and out. For joints ranging from 2 to 20 mm in width;
- for grouting swimming pools, spa baths, spa complexes;
- for sealing joints in kitchens and bathrooms with tiled-in units;
- for sealing joints between decorative glass bricks;
- for areas subject to strict hygiene requirements.

Preparation: the joints between the tiles must be free of dust and laying residue and must be at least two-thirds empty. The laying bed must be dry. If the mixture is already hardening, do not attempt to restore workability by adding solvents.

Application: the three parts of **Fugapox Style** are already measured out. Pour part B (accelerator) into the pot containing part A and mix with a mechanical mixer at low speed (max. 150 rpm, to prevent too much air being mixed in) until the parts are perfectly blended. Then pour in the third part (Part. C) if required, stirring it in slowly and evenly, and then mix at low speed until perfectly blended into the mixture. The mixture consistency and hardening time depend on the temperature (ideal temperature: +23°C).

Spread the mixture over the tiles with a rubber trowel, working crosswise to the joints. Proceed by immediately cleaning the tile surface, pouring plenty of water over the tiling and sponging it off several times with an abrasive sponge, rinsing and changing it frequently. The cleaning must be completed before the **Fugapox Style** sets. Once set, cleaning is almost impossible. We recommend you proceed with the filling by working in small enough areas to be able to fill the joints and clean the tiles before the product sets fully.

Finishes available:

- Sun: gold finish
- Star: silver finish
- Moon: pearl finish
- Night: glow effect
- In addition to these, there is also a Basic version, without any special finish.

Technical and application specifications

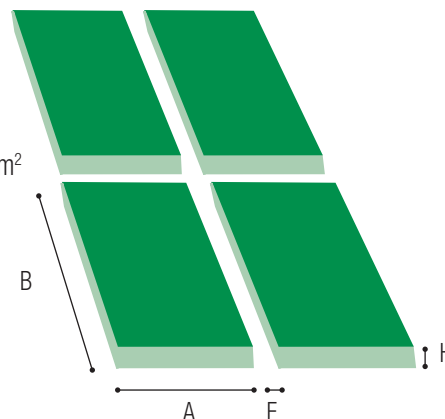
Hazard classification as per Directive 99/45/EC:	part A: irritant - part B: corrosive part C: none
Specific weight of mixture:	1.55 g/cm³
Pot life:	approx. 45 minutes
Mixing ratio:	part A: 2.25 - part B: 0.25
Application temperature:	from +5°C to 35°C
Joint sealant hardening time with tiling laid using standard adhesives:	approx. 4-7 hours (on walls) 1 day (on floors)
Joint sealant hardening time for tiling laid using fast-setting adhesives:	approx. 2 hours (on walls) approx. 3 hours (on floors)
Walk-over time	24 hours
Ready for use:	approx. 4 days
Acid resistance:	excellent (see chart)
Resistance to damp, solvents, oil, alkalis and ageing:	excellent (see chart)
Temperature resistance:	from -20°C to +90°C
Harmonised customs code:	35069100

Measurement of data at 23°C/50% Residual Humidity and no ventilation. The data may be considerably modified by the conditions of use.

Formula for calculating amounts required:

$$\frac{(A + B)}{(A \times B)} \times H \times F \times 1.55 = \text{amount required in kg/m}^2$$

A = tile width in mm
 B = tile length in mm
 H = tile thickness in mm
 F = joint width in mm



Chemical resistance of ceramic tiling with joints filled using Fugapox Style

Group	Name	Conc.	Continuous use at 20° C	Intermittent use (20° C)
Acids	Acetic	2.5 %	+	+
		5 %	(+)	+
		10 %	-	-
	Hydrochloric	37 %	(+)	+
		Chromic	20 %	-
	Citric	10 %	-	-
	Formic	2.5 %	+	+
		10 %	-	-
	Lactic	2.5 %	+	+
		5 %	(+)	+
		10 %	-	(+)
	Nitric	25 %	(+)	+
		50 %	-	-
	Oleic	-	-	-
	Phosphoric	50 %	(+)	+
75 %		-	-	
Sulphuric	1.5 %	+	+	
	50 %	(+)	+	
	98 %	-	-	
Tannic	10 %	(+)	+	
Tartaric	10 %	+	+	
Oxalic	10 %	+	+	
Alkalis, Saturated Solutions	Ammonia	25 %	+	+
	Caustic Soda	50 %	+	+
	Caustic Potash	50 %	+	+
	Sodium Hypochlorite	-	-	-
	Active Chlorine	6.5 g/l	(+)	+
Active Chlorine	162 g/l	-	-	

Key: + Excellent resistance / (+) Fair resistance / - Poor resistance

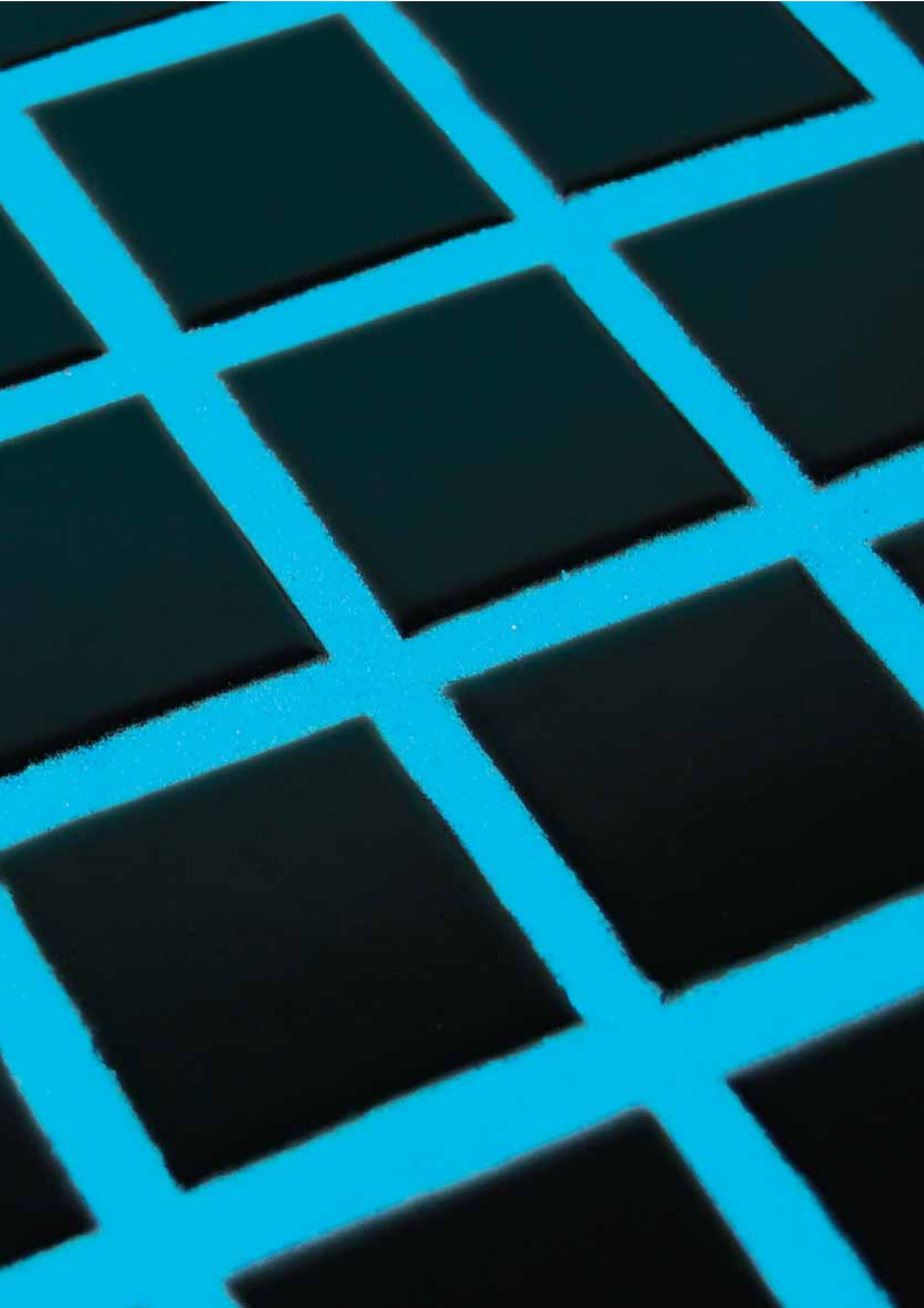
Warning

- Mix until the two parts are perfectly blended;
- do not use for filling joints between materials with porous surfaces, such as terra cotta, and check the cleanability of the material you intend to apply it to beforehand.
- clean the surfaces of the material completely before the **Fugapox Style** hardens. Once set, it is extremely difficult to clean off;
- working in high temperatures or on surfaces exposed to direct sunlight reduces the product's workability time considerably;
- bear in mind that temperatures below +12°C can also lengthen the setting time considerably and workability may be reduced due to the hardness of the mixture;
- wait until the product is fully hardened before exposing to chemicals;
- do not use **Fugapox Style** for flexible dividing joints.

Chemical resistance of ceramic tiling with joints filled using Fugapox Style

Group	Name	Conc.	Continuous use at 20° C	Intermittent use (20° C)
Saturated Solutions	Sodium hyposulphite		+	+
	Sodium chloride		+	+
	Calcium chloride		+	+
	Iron chloride		+	+
	Aluminium sulphate		+	+
	Sugar		+	+
	Hydrogen peroxide	1 %	+	+
		10 %	+	+
	Sodium bisulfite		+	+
	Tannic	10 %	(+)	+
Alkalis, Saturated Solutions	Tartaric	10 %	+	+
	Oxalic	10 %	+	+
	Petrol		+	+
	Oil		+	+
	Diesel oil		+	+
	Olive oil		+	+
	Ethanol		+	+
	Acetone		-	-
	Ethylene glycol		+	+
	Glycerin		+	+
Solvents	Perchlorethylene		-	-
	Trichlorethane		-	-
	Trichloroethylene		-	-
	Methylene chloride		-	-
	Toluene		-	-
	Benzene		-	-
	Xylene		-	-

Key: + Excellent resistance / (+) Fair resistance / - Poor resistance





Joint 100

Closed cell polyethylene backing cord for expansion joints

Form: Grey cord
Packs: Ø 6 – 100 m roll
 Ø 8 – 100 m roll
 Ø 10 – 100 m roll
 Ø 15 – 100 m roll
Quantities required: Specified in linear metres

Main features

- Unaffected by time
- Non-absorbent
- Compressible

Storage
 Unlimited.

Quality and Environmental Standards

Joint 100 undergoes constant, careful testing at our laboratories, in compliance with the legislation in force (UNI EN ISO 9001/2000).

Fields of application

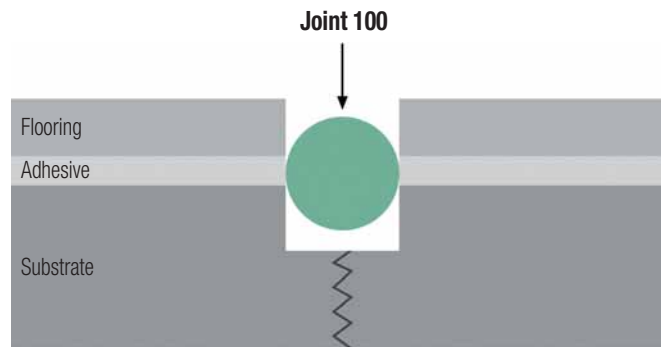
Joint 100 is suitable for the following:

- for filling vertical and horizontal joints indoors and out;
- as backing for elastomeric joints for industrial flooring, prefabricated panels etc.

- for sizing expansion joints before applying elastomeric sealant.

Preparation: all the joints must be dry, sturdy, and free of dust or crumbling parts, and there must be no oil, grease, wax, old paintwork or rust on them.

Application: fit **Joint 100** into the crack using an appropriate tool until it is positioned at the depth envisaged. Then fill the joint with the filler specified.



Technical and application specifications

Hazard classification as per Directive 99/45/EC:	none
Density:	40 kg/m ³
Room/ambient temperature:	from - 40°C to +80°C
Water absorption:	none
Elasticity:	10%

Measurement of data at 23°C/50% Residual Humidity and no ventilation. The data may be considerably modified by the conditions of use.

Warning

- Choose a polyethylene cord diameter larger than the joint width.



Primer Hi-Tech SL

One-part primer for polyurethane and silicon sealants

Form: Clear liquid
Packs: 0.500 kg
Quantities required: 50-60 g/m² (10-12 g/m per 1cm joint - depth)

Main features

- One-part
- Cleaning and cohesive action
- Increased adhesion

Storage

Primer Hi-Tech SL can be kept for up to 12 months if stored in a dry place and in its original packaging (temperatures from +10°C to +30°C).

Quality and Environmental Standards

Primer Hi Tech SL undergoes constant, careful testing at our laboratories, in compliance with the legislation in force (UNI EN ISO 9001/2000).

Fields of application

Primer Hi-Tech SL is suitable for the following:

- improving adhesion of **Hi-Tech SLN 50** and **Hi-Tech SLA 10** on porous surfaces;
- promoting adhesion of **Hi-Tech SLA 10** on cement bases;
- preparing joints which will be immersed in water for prolonged periods;
- preparing joints which will be exposed to heavy traffic.

Preparation: the joints between the tiles must be completely free of dust, oil, grease, wax and laying residue. The laying bed must be dry and cohesive.

Application: shake well and then apply with a brush. Wait approx. 20-30 minutes before applying the sealant. Several coats of the product must be applied in the event of particularly absorbent surfaces. Apply the sealant as soon as the primer is dry and, in any case, within 24 hours.

Technical and application specifications

Hazard classification as per Directive 99/45/EC:	noxious (Xn) - inflammable (F+)
Specific weight (+25°C):	0.97 g/cm³
Application temperature:	from +5°C to +35°C
Touch dry:	60 minutes
Waiting time before sealant application:	from 1 to 24 hours
Harmonised customs code:	32089019

Measurement of data at 23°C/50% Residual Humidity and no ventilation. The data may be considerably modified by the conditions of use.

Warning

- Do not use on natural stone prone to staining;
- this is not a strengthening product.



Hi-Tech SLA 10

Acetic curing anti-mould silicon sealant

Form: paste, 6 colours
Packs: 280 ml cartridges
 24 pieces/box
Quantities required: See chart

Main features

- Anti-mould
- One-part
- Excellent resistance to bad weather
- Excellent resistance to ageing
- Waterproof
- Excellent resistance to sudden temperature changes

Storage

Hi-Tech SLA 10 can be kept for up to 12 months if stored in a cool, dry place and in its original packaging.

Quality and Environmental Standards

Hi-Tech SLA 10 undergoes constant, careful testing at our laboratories, in compliance with the legislation in force (UNI EN ISO 9001/2000).

Warning

- Wait until completely dry before putting the area to use; dryness depends on room humidity (the damper it is, the quicker the curing is);
- do not apply **Hi-Tech SLA 10** to clay or terracotta tiles or cement without first applying **Primer Hi-Tech SL**;
- do not apply to bituminous, rubber, or soft plastic surfaces or directly to materials which may react to the acetic acid;
- avoid contact with stressed polyacrylic or polycarbonate elements;
- do not use on floors exposed to high foot traffic.

Fields of application

Hi-Tech SLA 10 is suitable for the following:

- for sealing joints in bathrooms, when fitting bathroom furniture, shower enclosures, and in cafés, shops, fitted kitchens etc;
- for sealing glass and window or door units;
- for general applications and gluing;
- for flexible joints between ceramic, stone, and cement tiles as long as they have been treated with **Primer Hi-Tech SL**;
- as an all-purpose sealant adhesive;
- for sealing joints between different types of materials.

Preparation: all the surfaces to be sealed must be dry, sturdy, and free of dust or crumbling parts, and there must be no oil, grease, wax, old paintwork or rust on them. To allow the sealant to fulfil its function, it must be able to stretch and shrink freely once applied to the joint. **Hi-Tech SLA 10** must adhere perfectly solely to the side walls of the joint, not to the base, and the joint must always be wider than it is thick. The joint must be designed so that the maximum movement envisaged is less than 20% of the initial width. To adjust the depth and prevent **Hi-Tech SLA 10** adhering to the base of the joint, the Joint 100 polyethylene foam compressible seal must be added beforehand.

To improve adhesion to extremely porous surfaces, apply **Primer Hi-Tech SL** with a brush, remembering to protect the edges of the joints with masking tape beforehand. After approx. 20 minutes of drying time, the joint can be filled with **Hi-Tech SLA 10**.

Application: cut the cartridge spout at the top, at the threaded part, and screw the nozzle on. Cut the nozzle to the right size for the joint required. Inject the cavity prepared using a specific gun and smooth off the joint surface with a tool, applying suitable pressure before the surface filming begins.

Quantities required

Joint size (mm)	5 x 5	5 x 10	10 x 10	15 x 10	20 x 10	25 x 10	30 x 15	40 x 20
Linear metres per cartridge	12	6	3	2	1,5	1.25	0.7	0.4

Technical and application specifications

Hazard classification as per Directive 99/45/EC:	none
Application temperature:	from +5°C to +35°C
SHORE A hardness:	(ASTM D-2240) 13-17°
100% elongation modulus:	(ASTM D-412) approx. 0.30 MPa
Tensile strength:	(ASTM D-412) >1.3 MPa
Elongation at break:	(ASTM D-412) >500%
Maximum permitted deformation:	approx. 20%
Room/ambient temperature:	from - 40°C to +150°C
Curing speed:	approx. 2 mm / 24h
Harmonised customs code:	32149000

Measurement of data at 23°C/50% Residual Humidity and no ventilation. The data may be considerably modified by the conditions of use.



Hi-Tech SLN 50

Neutral silicon sealant with low elastic modulus for dividing joints

Form: paste, 4 colours
Packs: 310 ml cartridges
 24 pieces/box
Quantities required: With a joint with a section measuring 10 x 10 mm, 2.8 m can be made using a 310 ml cartridge

Main features

- One-part
- Solvent-free and odourless
- Excellent resistance to bad weather
- UVA-resistant
- Excellent spring back
- Excellent resistance to high temperatures and sudden temperature changes

Storage

Hi-Tech SLN 50 can be kept for up to 12 months if stored in a cool, dry place and in its original packaging.

Quality and Environmental Standards

Hi-Tech SLN 50 undergoes constant, careful testing at our laboratories, in compliance with the legislation in force (UNI EN ISO 9001/2000).

Warning

- Wait until completely dry before putting area to use;
- do not apply to damp, bituminous, oily, or waxed surfaces;
- avoid contact with materials which release plasticizers or oils which jeopardise adhesion and alter colour and resistance;
- do not use on swimming pools and in areas exposed to heavy traffic;
- this product cannot be painted over.

Fields of application

Hi-Tech SLN 50 is suitable for the following:

- for sealing joints in cement, concrete, stone, marble, masonry, brickwork, and other porous building materials;
- for sealing joints without using a primer in nearly all plastic surfaces, except those made of polyethylene, polypropylene, or polytetrafluoroethylene (Teflon);
- for sealing joints in metals with anti-corrosion coatings, such as plastic paints and anodised aluminium;
- for sealing wood treated with paints, varnishes or lacquers, except waxed or oily woods;
- for sealing prefabricated concrete elements;
- for sealing glass and window or door units;
- for flexible joints between ceramic tiles;
- as an all-purpose sealant adhesive.

Preparation: all the surfaces to be sealed must be dry, sturdy, and free of dust or crumbling parts, and there must be no oil, grease, wax, old paintwork or rust on them. To allow the sealant to fulfil its function, it must be able to stretch and shrink freely once applied to the joint. **Hi-Tech SLN 50** must adhere perfectly solely to the side walls of the joint, not to the base, and the joint must always be wider than it is thick. The joint must be designed so that the maximum movement envisaged is less than 25% of the initial width. To adjust the depth and prevent **Hi-Tech SLN 50** adhering to the base of the joint, the Joint 100 polyethylene foam compressible seal must be added beforehand. To improve adhesion to extremely porous surfaces, apply **Primer Hi-Tech SL** with a brush, remembering to protect the edges of the joints with masking tape beforehand. After approx. 20 minutes of drying time, the joint can be filled with **Hi-Tech SLN 50**.

Application: cut the cartridge spout at the top, at the threaded part, and screw the nozzle on. Cut the nozzle to the right size for the joint required. Inject the cavity prepared using a specific gun and smooth off the joint surface with a tool, applying suitable pressure before the surface filming begins.

Technical and application specifications

Hazard classification as per Directive 99/45/EC	none
Density:	1.2 g/cm ³
SHORE A hardness:	(DIN 53505) approx. 20
Elongation modulus:	(ASTM D-412) 0.25 Mpa
Tensile strength:	(ASTM D-412) 0.5 Mpa
Elongation at break:	(DIN 53504) approx. 400%
Maximum permitted deformation:	25%
Room/ambient temperature:	from - 50°C to +160°C
Application temperature:	from +5°C to +40°C
Curing speed:	4 mm / 24 hour
Harmonised customs code:	32149000

Measurement of data at 23°C/50% Residual Humidity and no ventilation. The data may be considerably modified by the conditions of use.



Poliflex 520

One-part polyurethane air-curing adhesive/sealant

Form: paste, 2 colours
Packs: 310 ml cartridges
 24 pieces/box
Quantities required: With a joint with a section measuring 10 x 10 mm, 2.8 m can be made using a 310 ml cartridge

Main features

- One-part
- Can be painted over
- High mechanical resistance
- High chemical resistance
- Highly flexible
- Extremely versatile

Storage

Poliflex 520 can be kept for up to 12 months if stored in its original packaging in a cool, dry place.

Quality and Environmental Standards

Poliflex 520 undergoes constant, careful testing at our laboratories, in compliance with the legislation in force (UNI EN ISO 9001/2000).

Warning

- Do not use on porous or crumbly surfaces.
- do not apply in temperatures below +5°C;
- do not use on very damp surfaces;
- do not use on recently laid bituminous surfaces.
- check compatibility with varnishes and paints beforehand.

Fields of application

Poliflex 520 is suitable for the following:

- for sealing perimeter and dividing joints;
- for sealing vertical joints between prefabricated concrete elements;
- for sealing joints in industrial flooring exposed to

heavy traffic;

- for sealing joints on terraces, outdoor walls, and in car parks.

Preparation: all the surfaces to be sealed must be dry, sturdy, and free of dust or crumbling parts, and there must be no oil, grease, wax, old paintwork or rust on them. To allow the sealant to fulfil its function, it must be able to stretch and shrink freely once applied to the joint. **Poliflex 520** must adhere perfectly solely to the side walls of the joint, not to the base, and the joint must always be wider than it is thick. The joint must be designed so that the maximum movement envisaged is less than 10% of the initial width. To adjust the depth and prevent **Poliflex 520** adhering to the base of the joint, the Joint 100 polyethylene foam compressible seal must be added beforehand.

Application: cut the cartridge spout at the top, at the threaded part, and screw the nozzle on. Cut the nozzle to the right size for the joint required. Inject the cavity prepared using a specific gun and smooth off the joint surface with a tool, applying suitable pressure before the surface filming begins.

Technical and application specifications

Hazard classification as per Directive 99/45/EC:	contains isocyanates
Density	1.40 g/cm³
Application temperature:	from +5°C to +35°C
SHORE A hardness:	35-40°
Dust dry (23°C, 50% H.R):	approx. 40 minutes
100% elongation modulus (DIN 52455):	approx. 0.8 N/mm²
Elongation at break (DIN 52455):	> 300%
Tensile strength (DIN 53504):	approx. 1.2 N/mm²
Maximum permitted deformation:	max.15%
Room/ambient temperature:	from -40°C to +90°C
Elastic recovery capacity (DIN 53504)	> 85%

Measurement of data at 23°C/50% Residual Humidity and no ventilation. The data may be considerably modified by the conditions of use.



Elastogum Colabile

Pourable two-part polyurethane sealant for expansion joints

Form:	Part A: paste, 4 colours Part B: pale yellow liquid
Packs:	4.32 kg (4.00 kg + 0.32 kg)
Pallet:	276.48 kg
Quantities required:	148 g per linear metre for 1 cm ² joints

Main features

- Two-part
- High abrasion resistance
- Waterproof
- High chemical resistance
- High elasticity

Storage

Elastogum Colabile can be kept for up to 24 months if stored in its original packaging in temperatures no lower than +10° C. Keep away from direct sunlight.

Quality and Environmental Standards

Elastogum Colabile undergoes constant, careful testing at our laboratories, in compliance with the legislation in force (UNI EN ISO 9001/2000).

Warning

- Do not use on bases exposed to rising damp;
- do not use on damp surfaces;
- do not use on bituminous surfaces if oil exudation is a possibility;
- do not apply **Elastogum Colabile** in temperatures below +10°C;
- do not use for joints with movement over 10%.

Fields of application

Elastogum Colabile is suitable for the following:

- for sealing joints in rubber and PVC flooring;
- as an abrasion-resistant sealant for flooring in industrial and high-traffic areas, both indoors and out.
- for sealing dividing joints in concrete flooring and flooring in industrial buildings exposed to motor traffic

- or where high chemical resistance is required;
- for flexible joint sealing in the vicinity of pipelines, drains and manholes.

Preparation: all the surfaces to be sealed must be dry, sturdy, and free of dust or crumbling parts, and there must be no oil, grease, wax, old paintwork or rust on them. To allow the sealant to fulfil its function, it must be able to stretch and shrink freely once applied to the joint. **Elastogum Colabile** must adhere perfectly solely to the side walls of the joint, not to the base, and the joint must always be wider than it is thick. The joint must be designed so that the maximum movement envisaged is less than 10% of the total width. To adjust the depth and prevent **Elastogum Colabile** adhering to the base of the joint, the **Joint 100** polyethylene foam compressible seal must be added beforehand.

Application:

the two parts of **Elastogum Colabile** are already measured out. Pour part B (accelerator) into the pot containing part A and mix with a mechanical mixer at low speed until the parts are perfectly blended. The pot life at a temperature of +20°C is 2 hours but ideal self-levelling is achievable in the first 30 minutes. Before filling the joints, it is advisable to cover the edges with masking tape to ensure a neat finish. To facilitate filling, use a container with a nozzle.

Technical and application specifications

Hazard classification as per Directive 95/45/EC:	irritant (part A) - corrosive (part B)
Specific weight of mixture:	1.48 g/cm³
Mixture pH:	over 12
Pot life:	approx. 40 minutes
Mixing ratio:	4 (part A) - 0.32 (part B)
Brookfield viscosity of mixture:	20,000 m Pa.s
Application temperature:	from +10°C to +35°C
Setting time beginning and end:	8 hours (beginning) - 9 hours (end)
Walk-over time:	24-36 hours

FINAL PERFORMANCE SPECIFICATIONS

Tensile strength:	4.5 N/mm² (DIN 53504 S3)
Elongation at break:	160% (DIN 53504 S3)
Room/ambient temperature:	from -20°C to +80°C
Resistance to damp, abrasion, and ageing:	excellent
Resistance to oils, acids and alkalis:	good
Harmonised customs code:	39095000

Measurement of data at 23°C/50% Residual Humidity and no ventilation. The data may be considerably modified by the conditions of use.

00 - Transparent



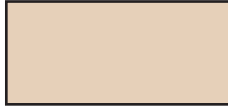
Hi-Tech SLA 10

01 - White



Sigilfuga FS, Sigilfuga FL, Sigilcolor, Sigilcolor Goccia, Fugapox, Hi-Tech SLN 50, Hi-Tech SLA10, Poliflex 520

02- Sand



Sigilfuga FS, Sigilfuga FL, Sigilcolor, Sigilcolor Goccia, Fugapox

03 - Pale yellow



Sigilfuga FS, Sigilcolor

04 - Yellow*



Sigilcolor

05 - Magnolia



Sigilcolor

06- Pink



Sigilfuga FS, Sigilcolor

07 - Apricot



Sigilcolor

08 - Peach



Sigilcolor

09 - Light brown



Sigilfuga FS, Sigilcolor, Sigilcolor Goccia

10 - Brick



Sigilcolor

11 - Brick red



Sigilcolor

12 - Earth



Sigilcolor

13 - Terra cotta



Sigilcolor

14 - Red*



Sigilcolor

15 - Beige



Sigilfuga FS, Sigilfuga FL, Sigilcolor, Sigilcolor Goccia, Hi-Tech SLN 50, Hi-Tech SLA10

16 - Dove



Sigilfuga FS, Sigilcolor

17 - Walnut



Sigilfuga FL, Sigilcolor, Sigilcolor Goccia

18 - Leather brown



Sigilfuga FS, Sigilfuga FL, Sigilcolor, Sigilcolor Goccia

19 - Violet*



Sigilcolor

20 - Aquamarine



Sigilcolor

22 - Jade green



Sigilcolor

23 - Sea green*



Sigilcolor

24 - Pale blue*



Sigilcolor

25 - Light blue*



Sigilcolor

27 - Opera blue*



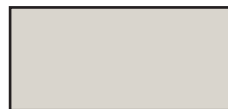
Sigilcolor

28 - Night blue*



Sigilcolor

29 - Pearl grey



Sigilfuga FS, Sigilfuga FL, Sigilcolor, Sigilcolor Goccia, Fugapox, Elastogum Colabile

30 - Cement grey



Sigilfuga FS, Sigilfuga FL, Sigilcolor, Sigilcolor Goccia, Fugapox, Hi-Tech SLN 50, Hi-Tech SLA10, Poliflex 520, Elastogum Colabile

31 - Anthracite



Sigilfuga FS, Sigilfuga FL, Sigilcolor, Sigilcolor Goccia, Fugapox, Elastogum Colabile

32 - Black



Sigilfuga FS, Sigilfuga FL, Sigilcolor, Sigilcolor Goccia, Fugapox, Hi-Tech SLN 50, Hi-Tech SLA10, Elastogum Colabile

33 - Manhattan



Sigilfuga FS, Sigilfuga FL, Sigilcolor, Sigilcolor Goccia

34 - Smoke grey



Sigilcolor, Sigilcolor Goccia

The colours featured on this page are provided merely as examples and may differ from the actual product colour for printing reasons.
*For interiors only.

Steel – Basic



Fugapox Style

Steel – Moon



Fugapox Style

Steel – Sun



Fugapox Style

Steel – Star



Fugapox Style

Carbon – Basic



Fugapox Style

Carbon – Moon



Fugapox Style

Carbon – Sun



Fugapox Style

Carbon – Star



Fugapox Style

Cobalt – Basic



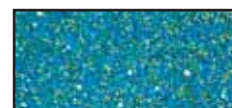
Fugapox Style

Cobalt – Moon



Fugapox Style

Cobalt – Sun



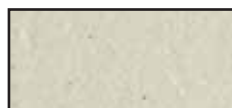
Fugapox Style

Cobalt – Star



Fugapox Style

Ice – Basic



Fugapox Style

Ice – Moon



Fugapox Style

Ice – Sun



Fugapox Style

Ice – Star



Fugapox Style

Lavender – Basic



Fugapox Style

Lavender – Moon



Fugapox Style

Lavender – Sun



Fugapox Style

Lavender – Star



Fugapox Style

Lilac – Basic



Fugapox Style

Lilac – Moon



Fugapox Style

Lilac – Sun



Fugapox Style

Lilac – Star



Fugapox Style

Gold – Basic



Fugapox Style

Gold – Moon



Fugapox Style

Gold – Sun



Fugapox Style

Gold – Star



Fugapox Style

Night finish

(effect is the same for all colours)



Fugapox Style

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* for interiors only.

