

Sika® -Epoxy Tilogrout

Epoxy based grout for tile jointing

Product Description	Hygienic, hard wearing, stainless, chemical resistant, three component water dispersed coloured epoxy tile grout containing quartz aggregates for filling joints between ceramic tiles, vitrified tiles, marble and stone (solvent free). Available in colours						
Uses	<p>It is used for rigid, impermeable and chemical resistant joint sealing between ceramic, vitrified tiles, marble, stone subject to chemical and/or mechanical attack.</p> <p><i>Exposure to chemicals i.e. in:</i></p> <ul style="list-style-type: none"> ■ Laboratories ■ Hospitals (including operating theatres) ■ Manufacturing areas <p><i>Exposure to aggressive contaminated water i.e. in:</i></p> <ul style="list-style-type: none"> ■ Thermal or mineral water swimming pools ■ Storage tanks ■ Sewage treatment plants ■ Animal facilities (agriculture, stables and zoos etc.) ■ Sanitary applications (bathrooms, toilets, around urinals, etc.) ■ Industrial washing facilities (with high pressure water etc.) <p>It is particularly suitable for use in the food industry (such as in dairies, pickling and preserves production, fruit juices /aerated drinks production etc.)</p>						
Characteristics / Advantages	<ul style="list-style-type: none"> ■ Very good workability in horizontal and vertical surfaces ■ Easy application by trowel or gun ■ Long open time (enough time to clean residues from the tiles with water after application) ■ Rapid hardening without cracking or shrinkage ■ Waterproof and impermeable to liquids ■ High mechanical resistance ■ Good abrasion resistance ■ Very good adhesion to ceramic tiles, mosaics, etc., ■ It provides a smooth surface, easy to clean and maintain ■ Good resistance to chemical attack ■ Resistant to steam cleaning ■ Stainless and colourfast 						
Product Data							
Form							
Appearance / Colours	Available in selective RAL Shades like: <table border="1" style="margin-left: 20px;"> <tr> <td style="background-color: #f0e68c;">Ivory</td> <td style="background-color: #f0e68c;">Light Ivory</td> <td style="background-color: #000000;">Jet Black</td> </tr> <tr> <td style="background-color: #800000;">Copper brown</td> <td style="background-color: #808080;">Dust Grey</td> <td style="background-color: #008000;">Mint Green</td> </tr> </table>	Ivory	Light Ivory	Jet Black	Copper brown	Dust Grey	Mint Green
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Copper brown	Dust Grey	Mint Green					
Packaging	1.0 kg sets						



Storage

Storage Conditions / Shelf-Life 12 months from date of production if stored properly in undamaged original sealed packaging in dry and cool conditions.

Technical Data

Chemical Base Water based epoxy resins

Mixed Density ~ 1.62 kg/l

Curing Time

Foot traffic	Min. 24 hours
Heavy Traffic	Min. 72 hrs

Mechanical / Physical Properties

Compressive Strength ~ 60 N/mm² after 7 days (According t ASTM C 579)

Tensile Strength ~ 20 N/mm² after 7 days (According to ISO 527 -1)

Bond Strength after 48 hours ~ 2.5 N/mm² (Concrete failure) (According t EN 1542)

Sag Nil (According to FIP 5.3)

Pot life (mixed system) at 30°C ~ 50 minutes (According to FIP 5.1)

Water Cleanability ~ 2Hrs at 27⁰C

Water Absorption ~ 0.02% after 7 days (According to ISO 62)

Chemical Resistance Chart at 23⁰C

ASTM C 267

Chemical	Continuous Exposure	Intermittent Exposure	Splash Exposure
Milk	R	R	R
Wine	R	R	R
Ethanol	R	R	R
Sulphuric Acid 20%	NR(Discolouration After 7 days)	R	R
Oxalic acid 10%	R	R	R
Acetic Acid 5%	R	R	R
Sodium Hydroxide 50% saturation	R	R	R
Methanol	R	R	R
Chloroform	NR	NR	R
Methylene Chloride	NR	NR	R
Toluene	NR	NR	R
Liquid Soap 10%	R	R	R
Water	R	R	R

R- Recommended ; NR- Not Recommended

* Chemical Resistance depends on exposure levels

Splash- minor spill cleaned up quickly

Intermittent- exposure to chemicals but cleaned up several times a day

Continuous – Heavy exposure to chemicals continuously

System Information

Application Details

Substrate Quality: Before commencing grouting the adhesive bed must be set. It is important that the tiles used are appropriate for the service conditions and are fixed on a solid bed of mortar so that there are no voids under the tiles. Protect the open joints from contamination and ensure that they are clean and free of all dirt, dust and loose materials.

Surface Preparation: Before starting the grout operation remove all spacers, dirt, and dust, loose and foreign materials. Do not leave any water standing in joints. Do not clean tiles with any acid based cleaners

Mixing: Pour Sika® Epoxy TilogROUT Part B into Part A into the mixing pail and mix thoroughly preferably by a slow speed mixer (<400rpm). Pour part C ,filler powder into the liquid mixture in small quantity and mix and mix thoroughly until uniformly blended.

Application: Using a hard rubber grout float, compact the grout into the joints ensuring that they are completely filled. Work in small areas and remove as much excess grout from the tile surface as possible. Strike off excess materials diagonally to the grout lines. Clean off the excess grout with a fine wet sponge, taking care not to drag grout from the joints. Clean diagonally to the grout lines. Similarly clean off any grout spillage on the tiles with a fine wet sponge.

Consumption / Dosage

Dependent on the dimension/size of the tiles and width of joints.

As a guide the following table can be used (approx. sq.ft. per pack of 1.0kg):

Tile dimensions	Joint width 2 mm	Joint width 3 mm	Joint width 4mm
	Coverage		
100 x 100 x 3	55	37	28
150 x 150 x 4	62	41	31
200 x150 x 5	56	38	28
200 x 200 x 5	66	44	33
200 x 300 x 6	66	44	33
300 x 300 x 6	83	55	41
400 x 400 x 6	110	73	55
450 x 450 x 7	106	70	53
500 x 500 x 8	103	69	51
600 x 600 x 8	124	83	62

Application Conditions / Limitations

Substrate Temperature +5°C min. / +45°C max.

Ambient Temperature +5°C min. / +40°C max.

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Application Instructions

Mixing Ratio Part A: Part B: Part C : : 0.500 kg : 0.100 kg : 0.400 kg
1.0 kg prepacked system (by weight)

Mixing Pour Sika® Epoxy TilogROUT Part B into Part A into the mixing pail and mix thoroughly preferably by a slow speed mixer (<400rpm). Pour part C,filler powder into the liquid mixture in small quantity and mix and mix thoroughly until uniformly blended.

Application Method / Tools	Using a hard rubber grout float, compact the grout into the joints ensuring that they are completely filled. Work in small areas and remove as much excess grout from the tile surface as possible. Strike off excess materials diagonally to the grout lines. Clean off the excess grout with fine wet lines. Similarly clean off any grout spillage on the tiles with a fine wet sponge, taking care not to drag grout from the joints. Clean diagonally to the grout
Value Base	All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.
Health and Safety Information	For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.
Legal Notes	The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.



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