

JOINTFILL EPOXY

THREE-COMPONENT EPOXY GROUT FOR TILE AND STONE JOINTS

GECO

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GECO JOINTFILL EPOXY is a three-component epoxy grout for fixing tiles and stones. It is stain-free, chemical-resistant, impervious, and has a high degree of resistance to abrasion and impact.

Features



Stain-free & easy to clean



Good resistance to abrasion & impact



Resistant to mild chemicals & acids



Hygienic, hard-wearing & impervious



Resists bacterial growth



Non-cracking or powdering



Areas of Application

Geco Jointfill Epoxy can be used in:

- Bathrooms, swimming pools and fountains
- Kitchens, cafeterias and institutional facilities
- Food and pharma industries
- Hospitals, health centres and laboratories
- Commercial and residential buildings

Working Properties

Nature	Three components (Hardener, Base & Filler)
Specific Gravity	1.78 ± 0.03
Mixing Ratio	7 Part Hardener + 18 Part Base + 75 Part Filler
Mix Consistency	Smooth paste
Pot Life	Around 45 minutes at 30 °C
Setting Time	Approx. 4 hours at 30 °C
For Joint Width	2 to 20 mm

Note: Values will vary depending on service and surface conditions.



Technical Properties

Property	Standard	Result
Compressive Strength @ 7 days	ASTM C579-18	900 kg/cm ²
Tensile Strength	ASTM C307-2023	8.4 MPa
Bond Strength	ASTM E736-19(2023)	3.2 MPa
Water Absorption	EN 13888-2	Nil
Linear Shrinkage	ASTM 531-18	0.005%
Thermal Shock Test	ANSI A118.3	6.8 N/mm ²

Chemical Resistance

Chemical	Standard	Exposure	Result
Acetic Acid, 10%	ANSI A118.3	14 days	Resistant
Citric Acid, 10%			
Oxalic Acid, 10 %			
Sulfuric Acid, 20%			
Ammonium Solution, 25%			
Calcium Chloride, 10%			
Ethylene Glycol			
Coffee			
Tea			
Toilet Cleaner (Acidic)			
Toilet Cleaner (Basic)			
Toilet Cleaner (Neutral)			

Coverage

For a joint size of 3 mm width and 10 mm depth, coverage will be approximately 30 running meters per KG.

Formula to calculate coverage:

$$\text{No. of kg required} = \frac{\text{Joint width (mm)} \times \text{joint depth (mm)} \times \text{joint length (m)}}{1000}$$

Note: Coverage will vary depending on service and surface conditions.

Application Procedure

Surface Preparation

1. Check that all tiles are securely fixed, and that the adhesive has thoroughly set.
2. It is essential that the tiles are fixed in the correct manner i.e., in a solid bed of adhesive without any voids beneath the tiles.
3. Ensure the joints are dry and free from dirt and other loose materials.
5. Clean the epoxy/water residue with a fine textured damp sponge in a circular motion, taking care not to drag epoxy grout from the joints.
6. If there is any light epoxy residue left on the tile surface, clean off using an alkaline detergent without disturbing the joint finish.

Material Preparation

1. Before use, shake the bottle of Part B (Hardener) and stir Part A (Base).
2. Add all of Part B (Hardener) to all of Part A (Base) in a suitable, clean container and mix together. If an electric drill mixer is used, mix at a slow speed (<300 rpm).
3. Slowly add the required amount of Part C (Filler) and mix until all the Part C is dispersed and a uniform colour is achieved.
4. Immediately pour the mixed grout onto the working area.

Application Method

1. Using a hard rubber float, press the grout firmly into the joints ensuring that the joints are completely filled.
2. Work in small areas and remove as much excess grout from the tile surface as possible by striking off diagonally to the grout lines.
3. Clean off the surplus grout from tile joints and surface within 15 minutes. Initially use a rough damp textured sponge to clean the excess grout and to remove the grout residue.
4. Use the damp soft sponge in a circular motion and keep it relative to the tile surface to achieve the flush joint. Do not allow water to flow or run into ungrouted joints.

Precautions

- Care should be taken to avoid staining tiles when grouting unglazed floor tiles, natural stones tiles with Matt glaze or textured surfaces.
- Do not apply on wet/damp tile joints. Tile joints have to be completely dry before application.
- Do not allow the residue to remain on the surface more than 24 hrs.
- Ensure adequate ventilation during application in working places.
- Strictly do not add water.
- Apply masking tapes along tile joints while working.
- Part mixing is not allowed.
- Maximum stain resistance is achieved after 10 days from installation. Protect from exposure to acids and strong floor cleaners during this period.

Limitations

- Light colours may darken slightly from direct UV exposure.
- Do not use this product for grouting tiles with metal decor or lustre.
- Not recommended for soft, polished marble or delicate glazed tiles.

Disclaimer: The product information and applications details given in this data sheet is meant to serve as a general guideline only. Users are advised to undertake a trial for product suitability prior to full-scale usage. There is no express or implied guaranty/warranty for the results. The company does not assume any liability or consequential damage for unsatisfactory results, arising from the use of our products.