



# TILE GROUT EP

## High Performance Hygienic Epoxy Tile Grout

## Technical Data Sheet

### Composition and Application Field

Tile Gout EP is a high performance, three-component, solvent-free epoxy resin used for grouting and bedding of various tiles and ceramics over concrete and steel surfaces. It is heavy duty adhesive and grout with high bonding strength, excellent chemical resistance to acids, alkali, solvents, and maximum protection against staining and bacterial attack. Tile Gout EP is an ideal material to bed and grout tiles in a single operation with one material. It is used wherever a chemical resistance and excellent mechanical properties are required.

Typical applications include the following:

- To fill a minor marble joint gap indoor and outdoor
- Industrial kitchens and catering facilities
- Electrical substations and plant rooms
- Hospitals and Laboratories
- Swimming pools and leisure facilities
- Heavy duty workshops, garage and services facilities
- Bottling plants and breweries

### Advantages

- High bonding strength
- Easy-on application
- High ultimate compressive strength
- Excellent chemical resistance
- Waterproofing
- Primerless
- Non-toxic; can be used in most areas where drink and food stuffs are processed
- Excellent adhesion to most commonly encountered building substrates and materials
- Suitable for vertical and horizontal applications in interior and exterior locations
- Available in grey and white colors
- No VOC

### Surface Preperation

The surface should be dry (moisture <5%) and any dust, laitance and contaminants should be removed by industrial vacuum.

Prior to application, Tile Gout EP system should be stored under cover and protected from extremes of temperatures which may cause inconsistent workability and cure times for the mixed material.

Ideally, at least 24 hours before mixing, Tile Gout EP system should be maintained at approximately 25°C. During application in cold conditions, correct conditioning can help, but application should be halted if the ambient temperature is likely to fall below 10°C.

Pot life of the mixed material will be affected by ambient temperature.

### Mixing

Base and hardener should be mixed together (mix ratio 2:1 by volume) in a suitable container until uniform color is obtained.

Use of heavy duty slow speed power drill with a jiffy mixing blade then add gradually the filler and confirm by using steel spatula to remove the holding material.

### Application Method

Apply Tile Gout EP on the bed and repaired areas with a spatula, scraper or palette knife above the existing finished level. Allow Tile Gout EP to dry to touch for approximately 6 hours depending on ambient temperature. Extra Tile Gout EP should be removed immediately by using dry sponge to achieve a clean overall surface.

### Curing

Good curing is essential for resin based materials to ensure specified performance. Complete cure is achieved after 72 hours at 25°C.

### Coverage

The coverage depends on the depth & width of tile joints.

E.g., A 150 x 150 x 20 mm tile would require 0.25 liter/m<sup>2</sup>/1 mm width.

### Cleaning

Tools and equipment can be cleaned by using Thinnercoat 10.

### Packing

2.5 liter pack including (base, hardener and filler).

### Technicals Properties

Density	1750 ± 10kg/m <sup>3</sup>
Pot Life	1 hour at 20°C
Compressive Strength (BS 6319 Part 2)	85 N/mm <sup>2</sup>
Bonding Shear Strength (ANSI A118:3)	7.0 N/mm <sup>2</sup>
Tensile Strength (ASTM C307)	16 N/mm <sup>2</sup>
Flexural Strength (ASTM C580)	35 N/mm <sup>2</sup>
Minimum surface Temp.	10°C
Maximum service Temp.	80°C
Chemical Resistance:	
Hydrochloric Acid 50%	Excellent
Nitric Acid 25%	Excellent
Sulfuric Acid 50%	Excellent
Phosphoric Acid 50%	Excellent
Acetic Acid 10%	Excellent
Lactic Acid 10%	Excellent
Citric Acid	Excellent
Sodium Hydroxide	Excellent
Ammonia 10%	Excellent
Petrol, Oil, Kerosene	Excellent
Butanol	Excellent
Skydrol	Very Good

### Storage and Shelf Life

Product should be stored at 25°C in dry conditions and keeping away from source of flame. Lasts 12 months in tightly closed container.

### Flammability

Tile Gout EP is nonflammable material.

### Safety Precaution

The application of material should be in good ventilation and avoid inhalation of the vapors. Use goggles and vinyl gloves. In case of contact with eyes, rinse immediately with plenty of clean water.