



TILE GROUT EP

High Performance Hygienic Epoxy Tile Grout

Composition and Application Field

TILE GROUT 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 a heavy duty adhesive and grout with high a bonding strength, excellent chemical resistance to acids, alkali, solvents, and maximum protection against staining and bacterial attack.

Uses

TILE GROUT 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, garages and service facilities.
- Bottling plants and breweries.

Advantages

- Smooth finish. Easy-on application. High ultimate compressive strength
- Excellent chemical resistance. Impermeable when immersed in water. Primeless.
- Non-toxic; can be used in most areas where drink and food 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 Preparation

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

Prior to application, **TILE GROUT EP** system should be stored under cover and protected from extreme temperatures which may cause inconsistent workability and cure times for the mixed material. Ideally, at least 24 hours before mixing, **TILE GROUT EP** system should be maintained at approximately 25°C. During application in cold conditions, the 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 a heavy duty slow speed power drill with a jiffy mixing blade then add gradually the filler and confirm using steel spatula to remove the holding material.

Application Method

Apply **TILE GROUT EP** on the bed and repaired areas with a spatula, scraper or palette knife above the existing finished level. Allow **TILE GROUT EP** to dry to touch for approximately 6 hours depending on

ambient temperature. Extra **TILE GROUT EP** should be removed immediately by using dry sponge to achieve a clean overall surface.

Curing

Good curing is essential for resin based materials. Installation using **TILE GROUT EP** systems can be opened to foot traffic after approximately 24 hours at 25 °C. Complete cure is achieved after 72 hours at 25 °C.

Coverage

The coverage of **TILE GROUT EP** depends on the depth and width of tile joints. E.g. A 150 x 150 x 20 mm tile would require 0.25 liter/m²/1 mm width.

Cleaning

Tools and equipment can be cleaned immediately by using **THINERCOAT 10** organic solvent.

Package

13 kg pack (including base, hardener and filler).

Technical Properties

Density	1750 ± 10 kg/m ³
Pot Life	1 hour at 25°C
Compressive Strength (BS 6319 Part 2)	85 N/mm ²
Bonding Shear Strength (ANSI A118.3)	7.0 N/mm ²
Tensile Strength (ASTM C307)	16 N/mm ²
Flexural Strength (ASTM C580)	35 N/mm ²
Minimum Service Temp	10°C
Maximum Service Temp	80°C
Chemical Resistance:	
Hydrochloride Acid 50%	Excellent
Nitric Acid 25%	Excellent
Sulfuric Acid 50%	Excellent
Phosporic 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



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Storage and Shelf Life

Product should be stored at 25oC in dry conditions.
18 months in tightly closed container.

Flammability

TILE GROUT EP is a nonflammable material while **THINNERCOAT 10** is flammable. Do not expose to naked flames during application.

Health and Safety

The material should be applied in a good ventilated area. Avoid inhalation of the vapors. Use goggles and vinyl gloves. In case of eye contact, rinse immediately with plenty of clean water, do not use solvent and seek medical attention immediately. The product complies with environmental and occupational health and safety standards ISO 14001 and OHSAS 18001.