

TILE GROUT EP

High Performance Hygienic Epoxy Tile Grout

DESCRIPTION

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

USE

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 services facilities.
- Bottling plants and breweries.

ADVANTAGES

- Smooth finish.
- Easy-on application.
- High ultimate compressive strength.
- Excellent chemical resistance.
- Impermeable when immersed in water.
- 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 a range of attractive colors.
- No VOC.

SURFACE PREPARATION

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

Prior to application, **TILE GROUT EP** system should be stored under cover and protected from extremes of temperatures which may cause inconsistent workability and

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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, 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

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 to ensure specified performance. 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.

PACKING

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

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 **THINNERCOAT 10** organic solvent.

FLAMMABILITY:

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

SHELF LIFE

12 months in tightly closed container.

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Date Revised: 20th July 2015

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TECHNICAL PROPERTIES

Test	Result
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 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

HEALTHY AND SAFETY

Avoid contact with the skin and eyes. Wear suitable protective clothing such as overalls, goggles, dust mask and gloves. Use a barrier cream.

Ensure that there is adequate ventilation in the area where the product is being applied. Do not breathe vapour or spray.

MSDS is available on request for the safe handling of this product.

FIRST AID

Eyes: In the event of accidental splashes, flush eyes with warm water immediately and obtain medical advice.

Skin: Wash skin thoroughly with soap and water or approved industrial cleaner. DO NOT USE solvent or thinners.

Inhalation: Remove to fresh air, loosen collar and keep patient rested.

Ingestion: In case of accidental ingestion DO NOT INDUCE VOMITING. Obtain immediate medical attention