

# TIGONIS EPOXY GROUT

Three Component Waterproof



**CHEMICAL RESISTANT**



**CRACK FREE**



**WATERPROOF**



**AVAILABLE IN COLORS**



**INTERNAL WALLS**



**LOW VOC**



## DESCRIPTION



TIGONIS EPOXY GROUT is a stainless, chemical resistant, hard wearing & waterproof epoxy based tile joint filler which has high degree of resistance to abrasion, impact & shocks. It is meant for grouting gap between glazed, ceramic, porcelain, vitrified & fully vitrified tiles, natural stones & Glass mosaics. This can also be used as a high-performance epoxy adhesive for fixing tiles & stone.

## USAGE



Surface To Be Grouted	Area Of Application
All types of ceramic tile, glazed tiles, porcelain tiles, vitrified & fully vitrified tiles, natural stones*, large format tiles, glass mosaic tiles, composites & engineered stone.	Floor & walls of internal & external area (only for concrete area not under direct sunlight)*, dry as well as wet area, water submerged area, food, pharma & hygiene required areas, area containing aggressive chemicals*, heavy traffic/ movement areas, domestic applications, commercial applications, wider tile joints



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## SALIENT FEATURES

- Stain free
- Excellent chemical resistant
- Develops hygienic, hard wearing and abrasion resistant surface.
- Waterproof property
- Peel, crack or powdering resistant
- Highly resistant to heavy traffic.
- Easy to Use - No noxious odor, nonflammable, water cleanable, easy to clean.
- Colour fast

## TECHNICAL INFORMATION

### APPLICATION PROPERTIES (Resin + Hardener + Filler)

Properties	Test Results
Component Appearance	Resin (Part A) - White Viscous liquid Hardener (Part B) - Yellow Viscous liquid Filler (Part C) - Colored powder
Mixing ratio	184 (Resin) + 78 (Hardener) + 738 (Filler) (2 : 1 : 7)
Mixed Materials Consistency	Smooth creamy paste
Mixed Density	1.75 ± 0.05 kg/ litre
Pot Life @ 300c	Min. 60 minutes
Available Shades	As per Shade card

## ALERT

- For highly absorbent natural stones/ marbles which may form a wet or colored patch when tile grout is applied, do sample test to check for possible staining.
- In case of the resin absorption, the dark stains may form on the sides and on the surface of the slabs and they can't be removed. This problem is usual for marbles/ stone of light colors.
- Light colors may darken slightly & turns to yellowish due to direct UV exposure.

Performance Properties	Test Results
Compressive Strength after 7 days	> 50 Mpa
Flexural Strength after 7 days	< 30 Mpa
Shear Adhesive Strength after 14 days	>= 30 Mpa
Water Absorption	<=0.5 gm
Pull-off Adhesive Strength	>=1.5Mpa (Concrete Failure)

**Note : Test results are indicative as per testing method specified in standard. Test results may vary as per substrate, site condition & testing machine etc. Actual field performance will depend on installation methods and site conditions.**



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# CHEMICAL RESISTANCE

## PROLONGED CONTACT

Aluminum Bromide, Aluminum Fluoride, Baking Soda, Barium Hydroxide, Beer, Boric Acid, n-Butanol, Calcium Chloride, Carbonates, Carbonic Acid, Castor Oil, Chlorides, Chlorinated Paraffin, Citric Acid, Coconut Oil, Cotton Seed Oil, Diesel, Dilute Detergents, Ethanol, Ethylene Glycol, Fats, Ferric Chloride, Fish Oil, Gasoline, Groundnut Oil, Kerosene, Linseed Oil, lubricating Oils, Milk, Nitrates, Olive Oil, Palm Kernel Oil, Palm Oil, Paraffin Wax, Pine Oil, Potassium Hydroxide, Silicates, Sodium Carbonate, Sodium Chloride, Soybean Oil, Sugar, Sulphates, Sunflower Oil, Tannic Acid, Vegetable Oil, Water & White Spirit.

## APPLICATION PROCESS

### SUBSTRATE PROCESS

- 24 hours time interval for grouting after tile fixing must.
- Clean joints to be dry, and free of dust & adhesive.
- Emptied at least 2/3 of the tile thickness depth.
- Put masking tape by side of grouting space or sealer if necessary.

### MIXING

- Shake the bottle of Hardener and stir the Base prior to mixing pot
- Pour Part A (Base) & Part B (Hardener) into a clean mixing pail.
- Mix thoroughly with a slow speed mixer until liquids are completely blended.
- Add Part C Filler Powder and mix for a uniform color & consistency.
- Avoid air bubble formation.
- Use the mix within 45 - 60 minutes from mixing.

### APPLICATION

- Using a press the grout firmly into the joints.
- Hold the float at a 90° angle and pull it at a 45° angle diagonally across the joints and tile to avoid pulling out the material.
- Ensure that joint is filled completely, and grout is not just sitting on top.

### CLEANING & FINISHING

- Clean off the surplus grout from tile joints and tiles within 30-45 minutes/ before the product dries.
- Initially use a rough textured sponge dampened with water to remove the grout residue.
- Use the damp sponge in a circular motion and keep it relative to the tile surface to achieve the flush joint & taking care not to drag grout from the joints.
- Clean off any light residue of tile grout left on the tile surface using an alkaline detergent/ TIGONIS tile cleaner without disturbing the joint finish.
- Tools and containers should be cleaned using clean water when the grout is still fresh.

## MAX 24 HOURS

Acetic Acid (5%), Ammonium Bromide (5%), Household Ammonia, Hydrochloric Acid (dil), Lactic Acid (3%), Methanol, Phosphoric Acid (10%), Sodium Hydroxide.

## SPLASH CONTACT

Acetic Acid (10%), Acetone, Acetyl Bromide, Benzene, Carbon disulphide, Carbon Tetrachloride, Chloroform, Chromic Acid, Ethyl Alcohol, Formic Acid, Lime Juice, Nitric Acid (10%), Phenol, Sulphuric Acid (20%), Methylene Chloride, Methylene Formamide. Please consult with Roff Technical Services.



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## APPLICATION TILING

Spread mixed material over the surface using a notch trowel. Tiles should be placed within the open time of the material. Due to the slip resistance properties of the material, tiles can be fixed vertically. Press firmly the tiles to ensure a good adhesion and remove surplus material from the face of the tiles immediately

## PRECAUTION

- Please take right/ complete proportion of all components (base, hardener & filler). Any change in proportion would not give correct product performance.
- Do not apply on wet/damp tile joints.
- Apply masking tapes along tile joints while working on unglazed floor tiles, porous tiles & natural stones, tiles with matt glaze or textured surfaces.
- Protect from direct rainfall/ foot traffic for at least 24 hours.
- Do not use acid to clean joints. Use TIGONIS TIGOCLEAN for cleaning purpose.

## SAFETY PRECAUTIONS

Wear suitable protective clothing, gloves and eyes/face protection. After contact with skin, wash immediately with plenty of clean water. In case of contact with eyes rinse immediately with plenty of clean water and seek medical advice. Limited to professional use only.



## FORMULA FOR THE COVERAGE CALCULATION

$$C = 1.75 \times H \times T \times [(L + W) / (L \times W)]$$

- C - Tile grout coverage (kg/m<sup>2</sup>)
- H - Thickness of tile (mm)
- T - Width of joint (mm)
- L - Length of tile (mm)
- W - Width of tile (mm)
- PACKAGING 1 kg, 5 kg packs

## SHELF LIFE

18 months for sealed pack when stored under cover, out of direct sunlight, dampproof condition and protect from extremes of temperature ( store between +15° C to +35° C temperature).



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