

Tile Shield Epoxy Tile Grout is a premium, high-performance, two-component, resin-based epoxy grout specifically designed for use in both residential and commercial tile installations. It provides outstanding protection against stains, moisture, chemicals, Acid and dirt, making it ideal for high-traffic areas, wet spaces, and environments exposed to heavy-duty use.

Key Features

- **High Strength and Durability:** Offers superior bond strength, ensuring long-lasting performance.
- **Waterproof and Stain-Resistant:** Perfect for use in high-moisture areas like kitchens, bathrooms, and pools.
- **Chemical Resistant:** Resists a wide range of chemicals and cleaning agents, maintaining grout appearance and integrity.
- **Easy to Clean:** The smooth surface resists dirt, stains, and grime buildup, making cleaning effortless.
- **Flexible and Versatile:** Suitable for use with ceramic, porcelain, stones and other types of tiles.
- **Non-Shrink and Non-Cracking:** Ensures consistent joint integrity even under extreme conditions.

Physical Properties

Property	Values
Composition	Two-component (resin Colour and hardener)
Color	Available in a range of colors (custom colours on request)
Density	1.8 - 2.0 g/cm ³
Pot Life	30-45 minutes at 23°C (73°F)
Working Time	45-60 minutes at 23°C (73°F)
Curing Time	24-48 hours (depending on ambient conditions)
Tensile Strength	10-12 MPa
Compressive Strength	40-50 MPa
Water Absorption	< 0.1%
Chemical Resistance	Excellent resistance to acids, alkalis, & most solvents
Temperature Resistance	-20°C to 80°C (-4°F to 176°F)
Shelf Life	18 months (when stored in unopened containers in a cool, dry place)

Applications

- Interior and Exterior Walls & Floors
- Kitchens, Bathrooms, and Showers
- Swimming Pools, Spas, and Wet Areas
- High-Traffic Commercial Spaces
- Heavy-Duty Residential Applications

Preparation and Application Instructions

1. Surface Preparation

- Ensure that the surface to be grouted is clean, dry, and free of any contaminants, such as dirt, dust, grease, or old adhesive residues.
- Remove any excess water or moisture from the substrate.
- Ensure the joints are clean and free from debris. Use a vacuum or a brush to clean the grout joints.

2. Mixing

- Mix Component A (epoxy colour) and Component B (hardener) in the correct ratio (as indicated on the packing) until a uniform color and consistency is achieved.
- Ensure the mixture is free from lumps and thoroughly blended for optimal performance.
- Mix only the amount of grout that can be applied within the pot life (30-45 minutes).

3. Application

- Use a rubber float or grout applicator to apply the grout into the joints, pressing firmly to ensure full joint coverage.
- Remove excess grout using the float at a 45° angle to avoid disturbing the joints.
- Allow the grout to set for 15-30 minutes before cleaning excess residual with a damp sponge.
- Clean the surface with a damp sponge, rinsing frequently to ensure the surface is smooth and free of grout haze.

4. Curing

- Allow the grout to cure for a minimum of 24 hours before subjecting it to any traffic or water exposure.
- Full curing time may extend up to 48 hours, depending on the ambient temperature and humidity.

Packaging

- 1 kg Kit
- 5 kg Kit
- 10 kg Kit

Storage and Handling

- **Storage Temperature:** Store in a cool, dry place between 5°C and 30°C (41°F - 86°F).
- **Shelf Life:** 18 months from the date of manufacturing when stored properly in unopened containers.
- **Handling:** Wear protective gloves, goggles, and clothing when handling the product to avoid skin and eye irritation.
- **Clean-up:** Clean tools immediately after use with a suitable solvent, such as isopropyl alcohol or acetone.

Health and Safety

Precautionary Statements

- Causes serious eye irritation.
- May cause an allergic skin reaction.
- Keep out of reach of children.
- In case of contact with skin or eyes, rinse immediately with plenty of water for at least 15 minutes and seek medical attention if irritation persists.
- Wear protective gloves, protective clothing, and eye protection

First Aid

- **Skin Contact:** Wash thoroughly with soap and water.
- **Eye Contact:** Rinse immediately with plenty of water and seek medical attention.
- **Inhalation:** Move to fresh air. Seek medical attention if symptoms persist.

Disclaimer

The information provided in this Technical Data Sheet is based on our current knowledge and experience. Since the conditions of use and application are beyond our control, users should conduct their own testing to determine the suitability of the product for their specific needs. We recommend reading the full safety data sheet (SDS) before use.

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