

HIGH PERFORMANCE, CHEMICAL RESISTANT EPOXY TILE GROUT

Description

NIROTILE EP GROUT is a three-component Epoxy Tile Grout, which is stain-free, crack-free, chemical-resistant and waterproof. NIROTILE EP GROUT is ideal for filling tile/stone joints in floor & walls of Ceramic tile, Vitrified tile, Glass mosaic tiles, Metal tiles, Granite/Marble, Agglomerates (Engineered Stones), Precast Terrazzo tiles in residential, commercial and institutional structures in internal & covered external areas.

Uses

- Joints in Vitrified, Ceramic, mosaic tiles
- Stain free finish for any kind of natural stone
- Indoor and outdoor use
- Swimming pools and leisure facilities
- Showers, Artificial water bodies and hot springs
- Heavy duty workshops, garages and services facilities
- Food production: meat, fish, vegetable and fruit processing, canning areas, dairies and bakeries.
- Sewerage plant & sewer lines.

Advantages

- Stainless - Will not be stained by most foods, beverages and cleaning agents
- Easy Maintenance - Smooth texture, easier to clean.
- Provides excellent chemical resistant to many acids, alkalis and corrosives.
- Provides hygienic, hard wearing and abrasion resistant surface.
- Waterproof property
- Durable - Will not peel, crack or powdering
- Excellent mechanical property & highly resistant to heavy traffic.
- Easy to Use - No noxious odor, nonflammable, water cleanable, easy to clean.
- Stable and uniform coloring for all types of tiles.

Characteristics

Chemical Resistance

Excellent resistance to most aqueous systems including sewage, urine, salt water, dilute acids, alkalis, oil and fats.

Typical Properties

Mixed Consistency	Paste
Mixed density	1.8 – 2 gm/cc
Pot Life	@ 2 Hrs at 20°C @ 1 Hrs at 35°C
Initial Set	@ 8 Hrs at 20°C @ 4 Hrs at 35°C
Full cure	@ 7 days at 20°C @ 4 days at 35°C
Compressive strength: ASTM C579-75	>70 N/mm ² at 7 days
Tensile strength: ASTM C307-61	>15 N/mm ² at 7 days
Bond shear strength: ANSI A118.3 E5.5	>8 N/mm ² at 7 days
Water Absorption	< 0.4%

Directions for use

Substrate preparation

- Start epoxy grouting only after 24 hours of tile/stone fixing.
- Remove debris in joints and lightly sponge the tile surface to remove dust and dirt & then start using NIROTILE EP GROUT.
- Ensure tile joints are dry, clean, free of dust & tile adhesive.
- Acid cleaning of tiles is not recommended, wash the tile area properly with water in case acid cleaning is done on tiles then start tile grouting.
- Joints should be completely filled to the depth, there should be no voids.

Mixing

The base and hardener components should be individually stirred to re-disperse any settlement. Base and hardener should then be mixed until a uniform grey paste is obtained. The filler should then be incorporated using a slow speed drill and paddle.

Applications

- Wear gloves during mixing & application.
- After mix is ready start filling tile joints. Mix should be used within pot life. Ensure that the grout is not in contact with water during application.
- Fill the joints with hard rubber squeeze/grout floater, press the grout firmly into the joints ensuring there are no air voids.

- Remove excess material before initial cleaning with grout float. Do not leave excess grout on the face of tiles.

Cleaning

Initial Cleaning

- Clean the excess grout from tile joints & tiles after 20 minutes of application. Cleaning should be done before the product hardens.
- 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/ tile cleaner without disturbing the joint finish.
- Tools and containers should be cleaned using clean water when the grout is still fresh.

Final Cleaning

- Within 24 hours do a second cleaning with normal soap detergent to remove any haze from the tile.

Packaging

A 12 kg pack containing Base, Hardener and Filler gives approximately 6 – 6.7 litres mixed material.

Coverage

For 2 mm joints between 152 x 152 x 5.5 mm wall tiles, 12 kg pack will be sufficient for to grout approximately 60 m².

Technical support

NIRMAN CHEMICALS provides technical advisory services for on-site assistance and guidance on mix design, optimum dosage evaluation of trials.

Storage and Shelf life

Store under cover, out of direct sunlight and protect from extremes of temperature. In tropical climates the product must be stored in an air-conditioned environment.

Shelf life is 12 months if kept in a dry store in the original, unopened pack.

Safety precautions

NIROTILE EP GROUT should not be swallowed or allowed to come into contact with skin and eyes. Avoid inhalation of vapours and ensure adequate ventilation.

Suitable protective gloves and goggles should be worn. Some people are sensitive to resins and solvents. Resin Barrier creams provide additional skin protection. Should accidental skin contact occur, remove immediately with a resin removing cream followed by washing with soap and water - do not use solvent.

In case of contact with eyes rinse immediately with plenty of water and seek medical advice. If swallowed seek medical attention immediately - do not induce vomiting

Fire

NIROTILE EP GROUT is not flammable.

Note

All Technical Data Sheets are updated on regular basis; it is the user's responsibility, to obtain the most recent issue.

Field services where provided, does not constitute supervisory responsibility, for additional information contact our local NIRMAN CHEMICALS representative.

Disclaimer

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