ALSHOULA
EPOXY TILE GROUT

High-Performance Chemical-Resistant Epoxy Grout for Tile Joints

Doc Code: TDS-TS-006 | Category: Tile Systems

1. Product Description

ALSHOULA EPOXY TILE GROUT is a two-component epoxy grout designed for filling tile joints where high mechanical strength, low water absorption, hygiene, and resistance to a range of chemicals are required.

The product is supplied as Part A (Base Resin) and Part B (Hardener). When the two components are mixed in the specified ratio, they form a workable paste for filling tile joints. After curing, the grout forms a dense, hard joint intended for demanding residential, commercial, and industrial environments.

The product is intended for tile joint grouting only. It is not intended to be used as a tile adhesive.

2. Areas of Application

- Floor and wall tile joints in commercial kitchens, food preparation areas, and dairies.
- Swimming pools, spa basins, and wet areas, subject to compatibility with the complete installation system.
- Hospitals, laboratories, pharmaceutical facilities, and other areas requiring cleanable joint surfaces.
- Selected industrial floors, chemical handling areas, battery rooms, and car wash facilities, subject to chemical-resistance verification.
- Showers, bathrooms, and other areas exposed to frequent moisture and cleaning.
- Commercial floors and other tiled areas subject to regular pedestrian traffic.

3. Features and Benefits

- Chemical Resistance: Provides resistance to a range of chemicals; suitability depends on the chemical type, concentration, temperature, and exposure duration.
- Dense, Low-Absorption Joint: Forms a compact cured joint with low water absorption.
- Mechanical Performance: Provides a hard joint with good resistance to abrasion and routine service loads.
- Stain Resistance: Helps resist staining from many common substances when properly cured and maintained.
- Good Tile-Edge Adhesion: Bonds to the sides of properly prepared tile joints.
- Hygienic, Cleanable Surface: The dense joint surface is suitable for areas requiring regular cleaning.
- Two-Component System: Predefined components are mixed before application.

AT A GLANCE

PACKAGING	APPLICATION TEMPERATURE	SHELF LIFE
20 kg set (15 kg Part A + 5 kg Part B)	+10°C to +30°C	12 months in original unopened packaging

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TECHNICAL DATA

4. Technical Specifications

The values below are indicative targets and must be confirmed by product testing and formulation verification.

Property	Typical / Target Value
Product Type	Two-Component Epoxy Tile Grout
Appearance	Coloured paste after mixing (Part A + Part B)
Mixing Ratio by Weight	3:1 (Part A : Part B)
Part A – Base Resin	15 kg
Part B – Hardener	5 kg
Total Set Weight	20 kg
Density of Mixed Product	Approx. 1.55–1.65 kg/L
Pot Life at 25°C	Approx. 45–60 minutes
Joint Width Suitability	2–12 mm
Application Temperature	+10°C to +30°C
Initial Hardening / Light Foot Traffic	Approx. 24 hours at 25°C
Full Chemical Resistance	Approx. 7 days at 25°C
Packaging	20 kg set (15 kg Part A + 5 kg Part B)
Shelf Life	12 months in original unopened packaging

Note: Pot life and curing times vary with material, substrate, and ambient temperatures. Higher temperatures shorten working time; lower temperatures delay curing.

5. Coverage and Consumption

Theoretical consumption depends on tile length, tile width, tile thickness, joint width, joint depth, and the density of the mixed grout.

The following formula may be used for an approximate estimate:

$$C = [(L + W) / (L \times W)] \times Wj \times Dj \times \rho$$

Where:
- C: Consumption (kg/m²).
- L: Tile length (mm).
- W: Tile width (mm).
- Wj: Joint width (mm).
- Dj: Joint depth (mm).
- ρ: Density of mixed grout (kg/L).

The formula provides a theoretical estimate. Allow for site wastage, tile-edge profile, surface texture, and application conditions. Confirm actual consumption by a site trial.

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APPLICATION GUIDE

6. Application Procedure

6.1 Joint Preparation

- Ensure that the tile installation has set firmly and that the tile adhesive has cured sufficiently before grouting. The required waiting time depends on the adhesive type, tile size, substrate, and site conditions.
- Joints must be clean, dry, sound, and free from dust, adhesive residue, spacers, grease, and loose material.
- Remove adhesive from the joint to a depth that allows the grout to fill the joint adequately and consistently. Do not damage tile edges or the waterproofing system.
- Do not apply over damp, contaminated, or inadequately prepared joints.

6.2 Mixing

- ALSHOULA EPOXY TILE GROUT is supplied as a two-component set consisting of Part A (15 kg) and Part B (5 kg).
- The mixing ratio by weight is 3 parts Part A to 1 part Part B.
- For a complete 20 kg set, add the entire 5 kg of Part B to the 15 kg of Part A.
- Mix using a suitable low-speed electric paddle mixer until a uniform colour and homogeneous consistency are achieved. Scrape the sides and bottom of the container during mixing.
- Avoid high-speed mixing, which may introduce excessive air.
- Do not mix partial quantities unless each component is accurately weighed at the specified 3:1 ratio.
- Do not add water, solvents, thinners, fillers, or other materials.

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APPLICATION GUIDE

6.3 Application

- Apply the mixed grout using a suitable hard rubber epoxy grout float.
- Spread diagonally across the joints and compact the material firmly to ensure complete filling without voids.
- Remove excess grout from the tile surface promptly using the grout float held at an appropriate angle.
- Work within the available pot life. Do not use material that has started to harden or has exceeded its workable life.
- Apply only the quantity that can be placed and cleaned within the product's working time.

6.4 Cleaning and Finishing

- Begin cleaning within the product's workable cleaning window, before the grout residue hardens on the tile surface.
- Use a suitable epoxy-grout cleaning pad and a clean, damp sponge in accordance with the cleaning procedure established for the product.
- Where required, use a compatible epoxy grout cleaner in accordance with its manufacturer's instructions. Test first on textured, matte, porous, or sensitive tile surfaces.
- Remove all residue without washing grout out of the joints or leaving excess cleaning liquid on the surface.
- Change cleaning water and rinse tools frequently. Do not allow epoxy haze to remain and cure on the tile surface.
- Clean tools and equipment immediately using a suitable cleaner before the grout hardens.

6.5 Curing and Protection

- Protect freshly grouted surfaces from foot traffic, dust, water, and contamination during initial curing.
- Light foot traffic may be permitted after approximately 24 hours at 25°C, subject to verification and site conditions.
- Allow approximately 7 days at 25°C to reach the target full chemical resistance. Do not expose the grout to aggressive chemicals before full cure.
- Lower temperatures and restricted ventilation may extend curing time.

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7. Packaging and Storage

Packaging: Supplied as a pre-measured 20 kg set consisting of:
• Part A – Base Resin: 15 kg.
• Part B – Hardener: 5 kg.

Storage:
• Store in original, unopened packaging in a cool, dry, covered area.
• Recommended storage temperature: +10°C to +30°C.
• Protect from direct sunlight, frost, moisture, and excessive heat.
• Keep containers tightly closed and prevent contamination.

Shelf Life: 12 months from the manufacturing date when stored unopened under the recommended conditions.

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SAFETY & SUPPORT

8. Safety Precautions

- Part A and Part B may cause skin or eye irritation or sensitization. Avoid direct contact.
- Wear suitable chemical-resistant gloves, safety goggles, and protective clothing during handling, mixing, application, and cleaning.
- Ensure adequate ventilation, particularly in enclosed areas.
- Avoid inhalation of vapours, aerosols, or cleaning-agent mist.
- In case of skin contact, remove contaminated clothing and wash the affected area thoroughly with soap and water.
- In case of eye contact, rinse cautiously with clean water for at least 15 minutes and obtain medical attention.
- Refer to the Safety Data Sheet (SDS) for component-specific hazards and first-aid instructions.

9. Important Notes

- The specified 3:1 mixing ratio by weight (Part A : Part B) must be followed accurately to ensure proper curing and performance.
- Do not dilute the product or add any unapproved materials.
- The product is an epoxy tile grout only and is not a tile adhesive or a substitute for a waterproofing membrane.
- Chemical resistance depends on the chemical, concentration, temperature, and exposure duration. Obtain compatibility confirmation for continuous or aggressive chemical exposure.
- Suitability for swimming pools and permanently wet installations must be assessed as part of the complete tile installation system.
- Epoxy residue becomes difficult to remove after hardening. Complete cleaning within the recommended working window.
- Conduct a site test on textured, porous, matte, or chemically sensitive tiles before full application.
- Do not use the product as a movement-joint sealant. Movement joints must be designed and treated with a suitable flexible sealant.
- Classification as RG under EN 13888-1 must not be claimed unless the applicable performance requirements have been verified by testing.

10. Standards and Classification

EN 13888-1 is the relevant product standard for classification of grouts for ceramic tiles. Any RG classification or declared performance class must be supported by the applicable test results. Test methods and performance declarations should be confirmed against the current applicable standard before publication.

11. Manufacturer Information

ALSHOULA ADHESIVES FACTORY
Jeddah, Kingdom of Saudi Arabia
Product: ALSHOULA EPOXY TILE GROUT
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Disclaimer: The technical information provided in this document represents indicative product specifications based on formulation targets and practical application experience. Declared performance values and chemical-resistance properties are subject to verification through appropriate laboratory testing. Actual field performance depends on joint preparation, tile characteristics, mixing accuracy, application workmanship, curing conditions, and chemical exposure. Users should conduct site trials and verify suitability for their specific requirements.