

### GENERAL DESCRIPTION

AXEL EPOGROUT 302ST is a two-component epoxy grout, multi-purpose repair material with a putty-like consistency. It is designed for use as an epoxy repair grout for concrete and masonry surfaces. The formulation provides excellent mechanical strength, chemical resistance, and adhesion.

AXEL EPOGROUT 302ST also acts as an adhesive for superior adhesion and durability. It is designed for bonding ceramic, porcelain, stone, glass, and metal tiles to various substrates. It is non-shrinking and fast curing to form a strong, durable, and waterproof bond. Unlike cementitious adhesives, epoxy adhesives rely on a chemical reaction for setting, offering superior mechanical and chemical resistance. This makes them ideal for demanding environments where high strength and durability are required.

### RECOMMENDED USES

Typically used in the following applications:

#### 1. Repair Applications:

- \* Filling big cracks, voids, or damaged concrete surfaces
- \* Patching substrates prior to tiling or as a standalone repair compound.

#### 2. Grouting / Adhesive:

- \* Grouting and bonding ceramic and stone tiles that requiring good adhesion strength
- \* Bonding small to medium-format tiles (up to 600x600 mm) to concrete, metal, plywood, or existing tiled surfaces.
- \* Joints between ceramic, porcelain, glass, natural stone, and mosaic tiles

#### 3. Specific Environments:

Application that needs good chemical and water resistance.

### CHARACTERISTICS & ADVANTAGES

- \* **High Strength & Durability** : Provides excellent compressive and bond strength.
- \* **Putty-Like Consistency** : Easy to apply and shape.
- \* **Excellent Adhesion** : Bonds well to concrete, stone, ceramics, and metal surfaces.
- \* **Chemical & Water Resistance** : Good resistance to chemicals and moisture.
- \* **Non-Sag & Non-Shrink** : Retains shape and volume after curing.
- \* **Fast Curing** : Rapid strength development for quick repairs.
- \* **Versatility** : Dual-purpose as grout and adhesive, reducing the need for multiple products.

### COVERAGE

Approximately 4 kg/m<sup>2</sup> @ 2mm thickness

### COLOURS

Greyish

### PACKAGING

12kg/set (Part A: 9kg Part B: 3kg)

### STORAGE

Store in a dry, cool and shaded place.

### SURFACE PREPARATION

All surface laitance and unsound concrete must be chipped away so that a reasonably rough but strong sound surface is provided. Ensure that all surfaces are clean and free from dirt, grime, oil, or other contaminants.

**For adhesive use:** Scarify smooth substrates (e.g., metal, glass) to improve bonding.

**For repairs:** Clean and widen cracks or voids for better penetration.

### METHOD OF APPLICATION

1. Mix thoroughly **AXEL EPOGROUT 302ST** Part A and Part B with a trowel until a uniform colour is achieved.
2. Application:  
**As Repair Compound:** Pack into cracks or voids with a putty knife or trowel; smooth surface for a flush finish. For deep repairs (>10 mm), apply in layers, allowing partial curing between applications.

**As Adhesive:** Spread onto substrate with a notched trowel (e.g., 4–6 mm notch for tiles up to 300x300 mm). Press tiles onto adhesive with a twisting motion; use spacers for alignment.

**As Grout:** Apply using a grout trowel, pressing firmly into joints at a 45° angle. Remove excess grout from tile surfaces. Cured epoxy requires mechanical removal (e.g., scraping or grinding).

#### Notes:

- \* **NOT** recommended for mixing the product partially. However, if partial mixing is required, ensure the mix ratio is accurate. Incorrect mix ratio will affect the curing time, strength and performance of product.
- \* At lower temperatures, the material will have a longer working time and may form a higher viscous compound, possibly making it difficult for pouring. At higher temperatures, the material may have less working time.
- \* Care should be taken to ensure that the epoxy grout is used before the working time lapses. Do not mix more than you can apply during working time.

### CLEANING OF TOOLS

Clean all tools and application equipment with solvent immediately after use. Hardened or cured material can only be mechanically removed.

**TECHNICAL SPECIFICATIONS**

No of components	Two
Mix ratio by weight	3:1 (A:B)
Mixed density	1.9 ± 0.1 kg/l
Compressive strength ( 7days )      BS EN 12390-3:2019	> 80 MPa
Volume shrinkage	No shrinkage
Working time @ 25°C	~30 mins
Curing time	Initial Set: ~ 6 hours Full cure : 7 days

(\*Temperature and mass/volume will affect the working and cure times)

**SHELF LIFE**

12 months from the date of production if stored properly in original, unopened and undamaged sealed packaging in dry conditions.

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