



GROUT MICROFILL 1

1. Product Description

Grout MicroFill 1 is a fine, ready-mixed powdered mortar containing graded silica sand, cement, special additives, and micro-fibers. It is formulated for repair and patching applications (up to 2 cm depth) on deteriorated concrete structures, providing a smooth finish, good flowability, and low shrinkage.

2. Uses

- Surface repairs of damaged or honeycombed concrete
- Patching voids and defects
- section repairs up to 2 cm in depth
- Applications requiring smooth finish and controlled shrinkage

3. Advantages

- Ready-to-use dry mix — just add water
- Smooth surface finish
- Improved toughness with micro-fibers
- Low shrinkage, reducing risk of cracks
- Excellent adhesion to concrete substrates

4. Technical Data

- **Maximum layer thickness:** 20 mm (2 cm)
- **Aggregate size:** up to 0.6 mm
- **Appearance:** Grey powder
- **Water demand:** ~18–20% by weight (depending on application)
- **Working time:** ~30–40 minutes at 25°C
- **Compressive strength (28 days):** >60 MPa
- **Density of mixed mortar:** ~2250 kg/m³

5. Surface Preparation

- Substrate must be sound, clean, and free from dust, grease, or loose particles.
- Pre-wet the surface to SSD (saturated surface dry) condition before application like following:
 1. Spray or brush the surface with clean water.
 2. Allow time for the water to soak into the pores.

3. Just before applying the mortar, wipe away or blow off any **visible free water** so the surface is damp but not shiny or dripping.

6. Mixing

- Pour the measured clean water into a mixing container.
- Gradually add Grout MicroFill 1 powder while mixing continuously with a low-speed drill (400–600 rpm).
- Mix for 3–4 minutes until a homogeneous lump-free paste is obtained.

7. Application

- Apply manually using a trowel .
- For multiple layers, allow the first layer to set before applying the next.
- Finish surface as required.

8. Packaging

- Supplied in **25 kg bags**

9. Storage & Shelf Life

- Store in a dry, cool place away from direct sunlight.
- Shelf life: 12 months in original unopened packaging.

10. Health & Safety

- Contains cement; may cause irritation.
- Use gloves, goggles, and protective clothing.

