

Technical Data Sheet

BC Tile Fix Plus

Rapid-Setting, High-Performance Cementitious Tile Adhesive

1. Description

BC Tile Fix Plus is an ultra-high-performance, rapid-curing, one-component, polymer-modified cementitious tile adhesive. It is formulated using premium-grade cement, selected silica sands, and advanced polymeric additives that enhance bonding strength, curing speed, and overall durability.

The product provides superior adhesion, fast walk-on time, and excellent workability across various climates — ideal for time-sensitive tiling applications. Ready-to-use — just add clean water and mix.

2. Features & Benefits

- Rapid curing – walkable after approximately 8 hours.
- Fast installation – saves 25–50% time compared to conventional mortars.
- Factory pre-mixed – ensures consistent quality and uniform performance.
- Extended open time up to 30 minutes at 20 °C.
- Initial set: approx. 180 minutes at 20 °C.
- Final set: approx. 420 minutes (7–8 hours) at 20 °C.
- Excellent adhesion to a wide range of substrates.
- Low shrinkage and minimal wastage.

3. Uses

Suitable for fixing a wide range of tiles and stones, including:

- Ceramic, vitrified, mosaic, porcelain, and quarry tiles.
- Hard natural and reconstituted stones.
- Cementitious tiles and artificial granite.
- Concrete and cementitious screeds, Masonry and blockwork.
- Rendered and plastered surfaces.



4. Technical Data

Property	Test Standard	Typical Value
Appearance	-	Grey powder
Mixing Ratio (Water Addition)	-	4.5–5.0 L per 20 kg bag
Density of Mixed Material	-	~1.60 g/cm ³
Pot Life	EN 1346	Approx. 2.5 hours
Open Time	EN 1346	≥ 30 minutes
Adjustability Time	-	Up to 30 minutes
Initial Set Time	ASTM C191	~180 minutes
Final Set Time	ASTM C191	~420 minutes
Walkable / Light Traffic Time	-	~8 hours
Slip Resistance	EN 1308	≤ 0.5 mm
Tensile Adhesion Strength (28 days)	EN 1348	≥ 1.0 N/mm ²
Coverage (2 mm thickness)	-	8–9 m ² per 20 kg bag
Service Temperature Range	-	-30 °C to +90 °C

5. Surface Preparation

- The substrate must be sound, clean, and free from oil, dust, grease, loose particles, and old coatings.
- Remove laitance or weak materials by mechanical means (e.g., wire brushing or shot blasting).



- Pre-dampen highly absorbent surfaces before application — avoid standing water.

6. Mixing

1. Pour 2/3 of the required water into a clean mixing container.
2. Gradually add BC Tile Fix Plus powder while mixing continuously using a low-speed mechanical mixer (400–600 rpm).
3. Add the remaining 1/3 of water and mix until a homogeneous, lump-free paste is obtained.
4. Allow the mixture to stand for 2–3 minutes, then remix briefly before application.
5. The exact water content may be adjusted slightly to achieve desired consistency.

7. Application

- Apply the adhesive onto the substrate using a notched trowel, ensuring a uniform layer thickness of 2–5 mm.
- For large-format or heavy tiles, apply adhesive to both the substrate and the back of the tile (“back buttering”).
- Press tiles firmly into position with a slight twisting motion to ensure full contact.
- Only apply as much adhesive as can be tiled within the open time (max. 30 min).
- Check adhesion periodically by lifting a tile and inspecting the coverage.

8. Finishing & Grouting

- Remove any excess adhesive from joints and tile surfaces before it hardens.
- Allow tiles to set for at least 8–12 hours before grouting.
- Protect newly tiled areas from water, frost, and traffic during the initial curing period.

9. Storage & Shelf Life

- Store in cool, dry conditions between +5 °C and +35 °C.
- Protect from direct sunlight and humidity.



- Shelf life: 12 months in unopened original packaging.

10. Packaging

20 kg multilayer laminated bag (Available in Grey color).

11. Precautions

- Contains cement — may cause skin or eye irritation.
- Avoid inhalation of dust; use protective gloves, goggles, and masks.
- Do not apply in temperatures below +5 °C or above +40 °C.
- Protect the applied area from rain, frost, and vibration until the adhesive sets.

12. Health & Safety

Refer to the BCI Safety Data Sheet (SDS) for information on safe handling, storage, and disposal.

DISCLAIMER

The data presented in this sheet are based on laboratory testing and practical experience. Variations in substrate, application method, and environmental conditions may impact performance. Users are advised to carry out tests under their own conditions. Building Chemistry Industry's responsibility is limited to the product replacement in cases of proven manufacturing defect.

