

Technical Data Sheet

BC Tile Adhesive Pro

High Performance Cementitious Tile Adhesive

1. Description

BC Tile Adhesive Pro is a high-performance, polymer-modified, cementitious dry-set mortar designed for fixing ceramic, mosaic, quarry, porcelain, terrazzo, artificial granite, and cement tiles.

It provides excellent adhesion, flexibility, and water resistance for both interior and exterior tile installations.

Available in Grey and White colors.

2. Features & Benefits

- High polymer modification ensures strong adhesion and flexibility.
- Excellent slip resistance — suitable for vertical and horizontal applications.
- Extended open time for easy tile placement.
- High water and impact resistance.
- Low shrinkage minimizes cracking.
- High bond strength ensures durable and long-lasting installations.
- Suitable for tropical and hot climates.

3. Uses

BC Tile Adhesive Pro is designed for the permanent installation of tiles and natural stones over:

- Concrete, cement mortar, and cementitious screeds.
- Masonry and blockwork surfaces.
- Dry walls and rendered surfaces.
- Areas exposed to intermittent moisture.





4. Technical Data

Property	Test Standard	Typical Value
Appearance	-	Grey / White powder
Mixing Ratio	-	4.5–5.5 L water per 20 kg bag
Density of Mixed Material	-	~1.60 g/cm ³
Pot Life	EN 1346	Approx. 3–4 hours
Open Time	EN 1346	≥ 30 minutes
Adjustability Time	-	Up to 20 minutes
Slip Resistance	EN 1308	≤ 0.5 mm
Tensile Adhesion Strength (28 days)	EN 1348	≥ 1.0 N/mm ²
Water Immersion Adhesion Strength	EN 1348	≥ 1.0 N/mm ²
Heat Aging Adhesion Strength	EN 1348	≥ 1.0 N/mm ²
Coverage*	-	4–5 m ² per 20 kg bag at 3 mm thickness
Service Temperature Range	-	-30°C to +90°C
Shelf Life	-	12 months in unopened original packaging

5. Surface Preparation

- The substrate must be sound, clean, and free of oil, dust, grease, paint, and loose particles.
- Remove any laitance, old coatings, or weak material by mechanical means.



- Dampen highly absorbent surfaces with clean water before application — avoid standing water.
- BC Tile Adhesive Pro should not be applied directly over gypsum-based surfaces unless properly primed with BC Primer or equivalent.

6. Mixing

- Add 4.5–5.0 liters of clean water per 20 kg bag.
- Mix using a slow-speed mechanical mixer ($\approx 400\text{--}600$ rpm) until a smooth, lump-free paste is achieved.
- Allow the mixture to stand for 3–5 minutes, then remix briefly before use.
- For improved flexibility and to achieve EN 12004 C2TES2 classification, mix 2.5 liters of BC Mix SBR (Styrene Butadiene Rubber latex) with 3.0–4.0 liters of water per 20 kg bag.

7. Application

- Apply a thin layer of adhesive to the substrate using the flat side of a notched trowel, then comb with the notched side.
- For ceramic and porcelain tiles: 3–5 mm bed thickness.
- For large format or heavy tiles: back-butter the tiles to ensure full contact.
- Press tiles firmly into the adhesive using a slight twisting motion.
- Only apply adhesive to areas that can be tiled within the open time (approx. 20–30 minutes).
- Periodically lift a tile to check for full adhesive transfer.

8. Finishing & Grouting

- Remove excess adhesive from tile surfaces and joints before it hardens using a damp sponge.
- Allow tiles to set for at least 24 hours before grouting.

9. Storage & Shelf Life

- Store in a cool, dry place, away from direct sunlight and moisture.



- Shelf life is 12 months from the date of manufacture in original unopened packaging.

10. Packaging

20 kg multilayer laminated bag (available in Grey and White).

11. Precautions

- Contains cement; may cause skin irritation upon contact with moisture.
- Avoid inhalation of dust — use a mask and gloves during mixing and application.
- Not suitable for direct application over gypsum boards or painted surfaces.
- Do not apply at temperatures below +5°C or above +40°C.
- Protect from rain and frost during curing.

12. Health & Safety

Refer to the BCI Safety Data Sheet (SDS) for detailed health, safety, and environmental information

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.

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