

Technical Data Sheet

BC Tile Fix Prime

Dry Set Cementitious Tile Adhesive

1. Product Description

BC Tile Fix Prime is a high-performance, polymer-modified, cementitious tile adhesive formulated for the permanent installation of ceramic, mosaic, quarry, and cement tiles. It provides excellent adhesion, slip resistance, and extended open time, ensuring superior workability and durability for interior and exterior applications on a variety of substrates.

2. Features & Benefits

- Ready-to-use dry mix – requires only water addition
- Excellent bond strength and adhesion to cementitious substrates
- Extended open time and excellent workability
- Superior slip resistance and anti-sag properties
- Low shrinkage – minimizes cracking and debonding
- Resistant to heat and moisture after curing
- Suitable for both wall and floor applications
- Complies with ANSI A118.1 and BS 5980:1980 Type 1, Class AA

3. Areas of Application

BC Tile Fix Prime is designed for the permanent installation of:

- Ceramic tiles, quarry tiles, mosaic tiles, and terrazzo tiles
- Indoor wall and floor applications
- Cementitious substrates, concrete, and plaster surfaces
- Masonry and cement render surfaces

Note: Not recommended for application directly over gypsum boards or metal substrates. For low-absorption tiles or challenging surfaces, use a polymer-modified adhesive such as BC Tile Fix Plus .



4. Technical Properties

Property	Typical Values	Test Standard / Remarks
Appearance	Fine cementitious powder	Grey or White
Mixing Ratio (Powder: Water)	3:1 by volume (\approx 4.4–4.8 L water per 20 kg)	Adjustable per site conditions
Density of Mixed Product	$1.65 \pm 0.05 \text{ g/cm}^3$	ASTM C185
Open Time	≥ 20 minutes	EN 1346
Adjustability Time	≥ 15 minutes	Internal Method
Pot Life	2 – 3 hours	at 25°C and 50% RH
Slip Resistance	≤ 0.5 mm	EN 1308
Compressive Strength	$\geq 10 \text{ N/mm}^2$	ASTM C579
Tensile Adhesion Strength	$\geq 0.5 \text{ N/mm}^2$	EN 1348 (Initial)
Shrinkage	$\leq 0.1\%$	ASTM C531
Service Temperature	-30°C to +90°C	—

5. Surface Preparation

- Substrate must be sound, clean, and free from oil, grease, dust, curing compounds, or loose particles.
- Remove old paint, wall coverings, or contaminants mechanically.



- Dampen highly absorbent substrates before application, but avoid standing water.

6. Mixing Instructions

1. Pour clean water into a mixing container.
2. Add BC Tile Fix Prime slowly while mixing with a low-speed drill (400–600 rpm) fitted with a paddle.
3. Mix for 3–5 minutes until a smooth, lump-free paste is obtained.
4. Allow the mixture to rest for 5 minutes, then remix before application.
5. Use within the specified pot life.

7. Application Procedure

- Apply adhesive evenly using a notched trowel (6 × 6 mm or as required).
- Spread only as much area as can be tiled within the open time (≈ 20 minutes).
- Press tiles firmly with a slight twisting motion to ensure full contact.
- For large tiles, back-butter the reverse side to achieve full adhesion.
- Use spacers for uniform joints.
- Clean excess adhesive with a damp cloth before it hardens.
- Allow at least 24 hours before grouting.

8. Coverage

Application Thickness	Approximate Coverage per 20 kg
2 mm	6.2 m ²
3 mm	4.2 m ²
4 mm	3.2 m ²

Coverage depends on surface texture, tile size, and trowel type.



9. Packaging

Packaging Type	Net Weight	Color Options
Multi-layer laminated bag	20 kg	Grey / White

10. Storage & Shelf Life

- Shelf life: 12 months from manufacturing date in original unopened bags.
- Store in a cool, dry place away from direct sunlight.
- Keep bags tightly sealed and stacked on pallets above ground.

11. Health & Safety

- Contains Portland cement – may cause irritation upon contact with skin or eyes.
- Avoid inhalation of dust; use protective gloves, goggles, and masks during handling.
- In case of contact, rinse immediately with clean water.
- Keep out of reach of children.

Refer to the Material Safety Data Sheet (MSDS) for detailed safety 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.

