Technical Data Sheet

BC Micro Cement Base

Mineral Micro Mortar for Surface Preparation of Micro cement Systems

1). Product Description

BC Micro Cement Base is a ready-to-use mineral micro mortar composed of polymers, fine aggregates, and waterproof additives. It is designed for surface preparation and leveling of substrates prior to the application of BC Tec Micro Cement Finish.

It provides excellent adhesion, flexibility, and waterproofing properties, making it ideal for interior and exterior applications on floors and walls.

2). Features & Benefits

- Excellent adhesion to concrete, tiles, porcelain, marble, and granite.
- 100% waterproof formulation prevents moisture staining.
- High flexibility to resist building movements and substrate tensions.
- Great hardness and durability for long-lasting surface preparation.
- Smooth application and fast drying for efficient job completion.
- Dust-reduced formula – up to 90% less dust during sanding.
- Excellent coverage and fiber mesh compatibility.
- Environmentally friendly, water-based and solvent-free.

3). Recommended Uses

- Base preparation for micro cement decorative systems.
- Leveling and waterproofing layer for walls and floors.
- Covering tile joints before applying micro cement finishes.
- Application over substrates such as:
- Tile, ceramic, porcelain
- Marble, granite, and stoneware, Cement mortar and concrete surfaces

4). Technical Data

Property	Test Method / Standard	Typical Value
Appearance	—	Smooth, ready-to-use paste
Base	—	Water
Density	—	~2.0 kg/L
Adherence to Concrete (28 days)	ASTM D4541	> 19 kg/cm²
Compressive Strength (28 days)	ASTM C109	> 75 kg/cm²
Flexibility	ASTM D412	> 8 N/mm²
Drying Time (20°C, 60% RH)	—	4 – 6 hours
Application Temperature	—	+5°C to +35°C
Mixing Ratio	—	Ready-to-use; add max. 5% water if needed
Coverage	—	1.0 kg/m² per 1 mm layer
Layer Thickness	—	Max. 1 mm per coat
Pot Life	—	Ready-to-use; depends on ambient conditions
VOC Content	ISO 11890-2	< 50 g/L (Low VOC)

5). Surface Preparation

- The substrate must be sound, clean, and stable, free from dust, grease, loose materials, or previous coatings that affect adhesion.
- Surfaces must be dry or slightly damp, not wet.
- Suitable substrates include ceramic tiles, marble, granite, cement render, concrete, and porcelain surfaces.

6). Application Instructions

Mixing:

- The product is ready-to-use; if necessary, dilute with up to 5% clean water to improve workability.
- Stir gently before use to obtain a homogeneous mixture.

Application:

- Apply with a steel trowel inclined at ~45°, pressing slightly to achieve a maximum 1 mm thickness.
- Spread with short, semicircular movements for even coverage.
- Allow each layer to dry completely (4–6 hours) before applying the next coat.
- Apply additional layers until a uniform and regularized surface is achieved.
- Ensure that fiberglass mesh or tile joints are no longer visible before finishing.

Finishing:

Once the base is dry, the surface is ready for the application of BC Tec Micro Cement Finish or other compatible decorative coats.

Precautions

- Do not exceed a total layer thickness of 1 mm per coat.
- Do not apply at temperatures below +5°C or above +35°C.
- Avoid application under frost, rain, or high humidity conditions.
- Protect from water contact until fully cured.

7). Consumption

Approx. 1.0 kg/m² per 1 mm thickness

(Consumption may vary depending on substrate condition and application method.)

8). Packaging

20 kg pail

9). Storage & Shelf Life

- Store in original, unopened packaging in a cool, dry area protected from frost and direct sunlight.
- Shelf life: 12 months under proper storage conditions.

10). Health & Safety

- Avoid contact with skin and eyes.
- Use protective gloves and goggles during mixing and application.
- In case of contact with skin or eyes, rinse immediately with water.
- Do not ingest.
- Refer to the BC Micro Cement Base Safety Data Sheet (SDS) for detailed health and safety information.