



# Technical Data Sheet

## BC Fix TH 100

### High-Performance Bonding Mortar for Insulation Boards

#### 1). Product Description

BC Fix TH 100 is a high-performance, cement-based bonding mortar designed for fixing thermal insulation boards on various wall substrates. Developed for the harsh Middle East climate, it provides excellent adhesion, long open time, and reliable performance. Optimized for manual and spray-machine application, it is an economical and efficient solution for EIFS/ETICS systems.

#### 2). Typical Applications

- Fixing insulation boards in EIFS/ETICS systems
- Bonding mortar for fair-faced concrete
- Suitable for AAC, blockwork, red brick, render, and concrete

#### 3). Features & Benefits

- Excellent adhesion to insulation boards and mineral substrates
- Long open time for easier adjustments during installation
- High workability with smooth consistency for easier trowel or machine application
- Non-sag formula ensures boards remain in place on vertical applications
- Weather-resistant and suitable for hot, dry, and humid Middle East conditions
- Non-combustible (A1 class), improving system fire safety
- Shrinkage-controlled formulation prevents debonding or cracking
- High compressive and flexural strength ensures long-term stability



## 4). Technical Data

Property	Value	Standard
Appearance	Light grey powder	-
Color	Grey	-
Bonding strength (EPS)	≥0.1 N/mm <sup>2</sup>	ETAG 004
Compressive strength	≥6 N/mm <sup>2</sup>	ASTM C109
Flexural strength	≥2 N/mm <sup>2</sup>	EN 998-1
Mortar class	CS III	EN 998-1

### Application Data

Property	Value
Mixing ratio	6.0 L water per 25 kg bag
Recommended thickness	3 mm
Maximum thickness/layer	8 mm
Consumption	~1.45 kg/m <sup>2</sup> per mm thickness
Yield	~700 L/ton



## 5). Application Procedure

### 5.1) Surface Preparation

- Ensure substrates are clean, dry, stable, and free of dust, oil, curing compounds, and loose particles.
- Substrate tolerance  $\leq 30$  mm.

### 5.2). Mixing Instructions

- Mix 25 kg BC Fix TH 100 with 6.0 L clean water.
- Mix mechanically at slow speed until lump-free.
- Allow to rest for 5 minutes, then remix before application.

### 5.3) Application

- Dampen substrate prior to application.
- Apply mortar 3–8 mm thick on the back of insulation board.
- Minimum 50% coverage required; for best adhesion, also apply on wall.
- Fix boards by pressing firmly to ensure full adhesive contact.

### 5.4) Curing

- Minimum curing time 4 days before reinforcement with mesh.

### 5.5) Application Temperature

- Do not apply below +5 °C.
- Avoid direct sunlight or strong wind.

## 6). Coverage Rate:

Approximately 1.45 kg/m<sup>2</sup> per mm thickness

## 7). Packaging

25 kg bags

## 8). Storage & Shelf Life

- Store in sealed bags, off ground, protected from moisture and direct sunlight.
- Shelf life: 9 months from production date under proper storage conditions.



## 9). Safety Precautions

- Avoid contact with skin, eyes, and foodstuffs.
- Use protective gloves, goggles, and masks.
- In case of contact with eyes, rinse immediately and seek medical advice.
- Work in well-ventilated areas, avoid inhaling dust.

### 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.

