

# Technical Data Sheet

## BC Plaster M

### High-Performance Manual & Machine Applied Premixed Cementitious Plaster

#### 1. Product Description

BC Plaster M is a high-quality, factory-blended, cement-based plastering material composed of hydraulic binders, well-graded aggregates, and performance-enhancing additives. The product is supplied as a dry powder in pre-weighed 50 kg bags ready for on-site use—requiring only the addition of clean water to produce a cohesive and workable mortar.

It is designed for manual hand application in areas not accessible to machine application, yet also suitable for plaster spray machine use.

#### 2. Uses

- Designed for manual and spray applications.
- Suitable for internal and external walls.
- Excellent replacement for traditional sand-cement plasters and renders.
- Applicable on concrete, blockwork, brickwork, or cementitious substrates.
- Suitable for humid and dry climatic conditions.

#### 3. Features & Benefits

- Factory-controlled pre-blend ensures consistent quality.
- Requires only water addition on-site.
- Uniform color and homogeneity.
- High adhesion to a variety of substrates.
- Weather-resistant and durable.
- Suitable for both interior and exterior applications.
- Environmentally friendly – reduced wastage and dust generation.



## 5. Technical Data:

Property	Test Method / Standard	Result / Typical Value
Appearance	Visual	Grey powder
Binder Type	—	Hydraulic cement
Bulk Density	ASTM C185	Approx. 1.40 ± 0.05 g/cm <sup>3</sup>
Water Demand	—	8–10 L per 50 kg bag
Consistency	—	Smooth, lump-free mortar
Pot Life	—	1.5–2 hours at 25°C
Working Time	—	Up to 60 minutes
Application Thickness	—	5–20 mm per coat
Compressive Strength	EN 1015-11	≥ 6.0 N/mm <sup>2</sup> (CS IV)
Adhesion to Substrate	EN 1015-12	≥ 0.3 N/mm <sup>2</sup>
Water Absorption	EN 1015-18	W0
Density of Hardened Mortar	EN 1015-10	Approx. 1.75 g/cm <sup>3</sup>
Shrinkage	ASTM C596	Controlled, minimal cracking
Temperature Range for Application	—	+5°C to +35°C



## 5). Application Procedure:

### 5.1) Surface Preparation

All substrates must be sound, clean, and free from dust, grease, oil, laitance, or loose material. Remove any curing compounds or form release agents. Before applying BC Plaster M, dampen the substrate with clean water until surface suction is neutralized. Avoid water pooling.

### 5.2) Mixing

1. Pour 8–10 liters of clean water into a suitable container for each 50 kg bag.
2. Gradually add BC Plaster M while mixing continuously using a mechanical mixer or low-speed electric drill (400–600 rpm) with a suitable paddle.
3. Mix for 3–4 minutes until a uniform, lump-free consistency is obtained.
4. For manual mixing, adjust water quantity as needed.

### 5.3). Application

- Apply BC Plaster M in one- or two-layers using hawk and trowel or spray machine.
- For best adhesion on smooth or dense surfaces, first apply BC Spatter Dash SB as a bonding coat.
- Level the applied plaster with a straightedge or screeding bar to desired thickness (5–20 mm).
- Allow the plaster to stiffen (typically 40–60 minutes at 25°C), then float or trowel to achieve the required finish.
- Do not apply on frozen or extremely hot substrates.

### 5.4). Curing

Cure BC Plaster M by light water misting every 12 hours for at least 3 days. In hot or dry climates, extend curing to 5 days to prevent shrinkage cracks and ensure full strength development.



## 6). Yield & Coverage

Pack Size	Yield	Coverage
50 kg Bag	Approx. 0.66 L/kg	Approx. 1.5 kg/m <sup>2</sup> per 1 mm thickness

## 7). Shelf Life & Storage

- Shelf Life: 12 months from the date of manufacture in unopened original packaging.
- Storage Conditions: Store in a dry, shaded, and elevated area, away from moisture and direct sunlight, at temperatures between 5°C and 35°C.

## 8). Health & Safety

- BC Plaster M is alkaline in nature. Avoid contact with eyes and skin.
- Use protective gloves, masks, and goggles during application.
- In case of skin contact, wash with soap and water.
- If eye contact occurs, rinse immediately with plenty of clean water and seek medical attention.
- Refer to the BC Plaster M Safety Data Sheet (MSDS) for detailed health 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.

