METHOD STATEMENT

BC Plaster M

High-Performance Manual Applied Premixed Cementitious Plaster

Manufacturer: Building Chemistry Industry

1. PURPOSE

The purpose of this method statement is to outline the procedure, materials, equipment, and quality control measures for the correct and safe application of *BC Plaster M*, a high-quality, cement-based premixed plaster, to ensure uniform, durable, and defect-free plaster finishes on internal and external wall surfaces.

2. SCOPE

This method statement covers surface preparation, mixing, application, finishing, curing, and protection of *BC Plaster M* on concrete, blockwork, and brickwork substrates for both interior and exterior areas.

It applies to manual hand-applied works and areas where machine spraying may not be feasible.

3. REFERENCES

The following standards and documents shall be referred to in conjunction with this method statement:

- EN 1015 series – Methods of test for mortar for masonry
- ASTM C185 – Density of Hydraulic Cement Mortar
- ASTM C596 – Drying Shrinkage of Mortar
- Manufacturer's Technical Data Sheet (TDS) and Safety Data Sheet (SDS) for *BC Plaster M*
- Project Specifications and Drawings

4. MATERIALS

Product Name: BC Plaster M
Type: Cementitious, premixed, factory-controlled plaster
Appearance: Grey powder
Packaging: 50 kg bag
Mixing Water: Clean, potable water free from oil, salts, and impurities
Bonding Agent (if required): BC Spatter Dash SB (for smooth or dense substrates)

5. TOOLS & EQUIPMENT

- Mechanical mixer or low-speed electric drill with paddle (400–600 rpm)
- Steel trowel, hawk, and straightedge
- Measuring containers for water
- Spray plastering machine (optional)
- Sponge/wood float for finishing
- Brush or air blower for substrate cleaning
- Curing spray or misting equipment

6. RESPONSIBILITIES

- Site Engineer: Ensure that materials, manpower, and equipment comply with this method statement and project specifications.
- Supervisor/Foreman: Direct and monitor application activities to ensure workmanship and safety.
- Quality Control (QC) Inspector: Check surface preparation, mixing ratio, application thickness, and curing.
- Safety Officer: Ensure compliance with all relevant safety procedures and PPE requirements.

7. WORK PROCEDURE

7.1 Surface Preparation

1. Ensure the substrate is structurally sound, clean, and free from dust, grease, oil, laitance, paint, or loose particles.
2. Remove any curing compounds or form release agents.
3. For concrete or smooth surfaces, apply *BC Spatter Dash SB* as a bonding layer and allow to cure for at least 24 hours.
4. Dampen the surface with clean water before application to neutralize suction, ensuring no standing water remains.

7.2 Mixing Procedure

1. Pour 8–10 liters of clean water into a mixing container for each 50 kg bag of *BC Plaster M*.
2. Gradually add the powder while continuously mixing with a mechanical mixer or low-speed drill.
3. Mix for 3–4 minutes until a smooth, lump-free, homogeneous mortar is obtained.
4. Allow mixture to rest for 2–3 minutes and remix briefly before use.
5. Do not add extra water after the mixture has begun to set.

7.3 Application

1. Apply the mixed plaster onto the prepared substrate using a steel trowel or hawk.
2. For thicker applications (>20 mm), apply in two coats — the second coat should be applied after the first has stiffened but not fully dried.
3. Level the surface using a straightedge or screed to achieve uniform thickness.
4. Typical application thickness per coat: 5–20 mm.
5. Working time: Approximately 60 minutes at 25°C.
6. Avoid application under direct sunlight, strong wind, or on frozen/hot substrates.
7. Ensure corners, edges, and junctions are properly formed and aligned.

7.4 Finishing

1. After initial stiffening (typically 40–60 minutes at 25°C), float the surface using a wood or sponge float to achieve the desired texture and smoothness.
2. For fine finishes, lightly trowel the surface after partial setting.
3. Avoid over-troweling, which may cause surface cracking or weak bonding.

7.5 Curing

1. Begin curing after initial set by light water misting every 12 hours for at least 3 days.
2. In hot or dry weather, extend curing to 5 days to prevent shrinkage cracks and ensure full strength development.
3. Protect plastered surfaces from rapid drying, frost, or rain during the curing period.

8. COVERAGE & YIELD

Pack Size Approx. Yield Coverage

50 kg bag 0.66 L/kg 1.5 kg/m² per 1 mm thickness

9. QUALITY CONTROL

Parameter	Test Method	Acceptance Criteria
Appearance	Visual	Smooth, homogeneous grey mortar
Compressive Strength	EN 1015-11	≥ 6.0 N/mm² (CS IV)
Adhesion to Substrate	EN 1015-12	≥ 0.3 N/mm²
Water Absorption	EN 1015-18	W0 classification
Density (Hardened)	EN 1015-10	Approx. 1.75 g/cm³
Thickness	Vernier/Measurement	5–20 mm per coat

10. HEALTH & SAFETY

- *BC Plaster M* is cement-based and alkaline in nature.
- Use appropriate PPE: gloves, goggles, and dust masks.
- Avoid inhalation of dust or prolonged skin contact.
- In case of eye contact, rinse immediately with plenty of water and seek medical attention.
- Refer to the product's Safety Data Sheet (SDS) for additional information.

BCI BUILDING CHEMISTRY INDUSTRY

11. STORAGE & HANDLING

- Store bags in a dry, shaded, and elevated area.
- Keep away from moisture and direct sunlight.
- Shelf life: 12 months from manufacture date in original sealed packaging.
- Do not stack more than 10 bags high.

12. ENVIRONMENTAL CONSIDERATIONS

- Avoid disposal of material in drainage or open land.
- Collect waste mortar and dispose of it according to local environmental regulations.
- Use clean tools and water to minimize contamination.

13. INSPECTION & APPROVAL

Before proceeding to subsequent finishes (paint, putty, or coating), ensure:

- Surface is fully cured and dry.
- No visible cracks, hollowness, or debonding.
- Work is inspected and approved by the site engineer and QA/QC department.