

ECMAS BLOCKPLUS

HEAVY RAIN AND TYPHOON RESISTANT, WBD PLASTER FOR AAC BLOCKS AND LIGHTWEIGHT CONCRETE BLOCKS

Description

ECMAS BLOCKPLUS is a dry-mixed 100% waterproof, breathable and dehumidifying plastering mortar consisting of grey Portland cement, high quality graded silica sand, fibres and unique WBD Component. It is meant for plastering of AAC block walls and lightweight concrete block walls. WBD component is the key component which ensures hydrophobic and dehumidifying nature of the product.

Advantages

- 100% waterproof in all thickness
- <1 mm water penetration when exposed to heavy rain or typhoon conditions
- High breathability - allows water vapour to pass through
- Dehumidifying ability - constantly dries out moisture outside from the wall
- Excellent workability and adhesion to rough surfaces
- Applicable on wet or damp surface
- Usable for interior / exterior above ground walls
- Grey uniform stucco finish
- Resistant to formation of hairline cracks
- Paintable with any type of masonry paint
- Environment friendly, non-toxic, No VOC

Areas of Application

As a waterproofing plaster on AAC or concrete blocks for:

- Vertical surface - AAC blocks, lightweight concrete blocks
- Interior / Exterior above ground walls
- Bathrooms / balconies walls
- Spa rooms etc

Installation Guidelines

Surface Preparation: Before applying **ECMAS BLOCKPLUS**, it is important to remove all existing plaster, stucco, loose particles, residual paint, oil, rust, dust, and other impurities. Defective wall elements, such as damaged AAC or Concrete blocks should be repaired or replaced. If salt efflorescence is present, joints must be raked to a depth of 20mm. The Wall surface shall be thoroughly cleaned with suitable equipment such as high-pressure air, water or wire brush. Water absorbent surfaces should be well moistened with water before application. To maximize cohesion a thin mixture of Cement and Water should be spattered onto the surface before plastering. In cases water leaking onto the plastered surface, it is important to ensure that the leakage is stopped for at least 72 hours or more if possible, for proper setting of the plaster.

Mixing: To a 25 kg bag of **ECMAS BLOCKPLUS**, approximately 3.7 - 4.0 litre of clean water is added in a gravity mixer. Mix or stir for 7-10 minutes. Mixed material has a pot life of about 3-4 hour. It is recommended to use electrically powered mixing tool, due to hydrophobic abilities of the plaster.

NOTE: DO NOT ADD ANYTHING IN TO THE MIXED COMPOSITION



Application: The plaster is applied on the prepared surface manually with a smoother or with a spray applicator. Apply thin slurry of cement and water on the application surface (Surface must be wet). Apply layer of **ECMAS BLOCKPLUS** at a thickness of 5-10 mm. The minimum thickness of one layer should be 5 mm; with a maximum of 10 mm can be laid. Finish the surface as per requirement.

Curing: It is necessary to prevent the plaster from drying too fast since the optimal moistness enables permanent hydration of cement materials and minimization of cracking. The plaster has to be cured for a minimum of 7 days. Upon curing, the surface can be painted or tiles can be laid.

Safety & Precautions

Wear all PPE's at the time of Application like Safety boot, Safety Goggles, Hand Gloves, Mask, etc. and avoid contact with Skin and Eyes. Any direct skin contamination with the hardeners should be washed off immediately with soap and water.

Technical Specification

Appearance/Color	Powder / Grey
Chemical Base	Silica Sand, Cement, Methyl Cellulose, WBD Component BLOCKPLUS
Density	1550 kg/m ³ +/- 50kg
Compressive Strength	6 MPa
Layer Thickness	Minimum 5 mm, Maximum 2 layers in total thickness of 10 mm
Coverage	4 Sqm/bag @ thickness 5 mm
Packaging	25 kg bag
Shelf-life	18 months when stored in dry condition

Maximum depth of water penetration into hardened plaster \leq 1mm

Diffuse resistance of water vapor, coefficient - 12.36

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