

Monneli Plaster Mix LW

Premix plaster designed for use with AAC concrete and AAC block work

Product Description

Plaster Mix LW is a cement based plastering material composed of hydraulic binders, selected manufactured sand, aggregates, and special additives. It is supplied as a dry powder in bags/bulk ready to use on site, which requires only addition of clean water to produce cohesive mortar. Plaster Mix LW is specially designed for application by spray machine and contains special shrinkage control additive and provides good adhesion with uniform colour surface.

Use

- ▶ Designed for spray application internally or externally in wet & dry conditions onto AAC block walls & rough surfaces without the necessity of the prior application of a spatter dash coat.

Advantages

- ▶ Fast mixing application using spray machine
- ▶ Contains special additive that reduces friction and prolongs lifespan of equipment.
- ▶ Factory controlled pre-blend ensures consistent high quality.
- ▶ Requires only addition of water on-site at the time of usage.
Uniform colour/mass.
- ▶ Improved workability & curing.
- ▶ Easy application with uniform work flow enables high productivity & superior finishing.
- ▶ Strong adhesion on variety of substrates.
- ▶ Internal & external applications.
- ▶ Shrinkage control reduces surface cracks.
- ▶ Suitable for humid & dry conditions.

Usage Instructions

Surface Preparation

Substrate should be sound, clean, free from loose material, grease, laitance, dirt curing compound, etc.

Prior to Plaster Mix LW application, damp the entire surfaces with clean potable water and the substrate should be a neutralized surface dry at the time of Plaster Mix LW application.

Mixing

Add to the mixing container 7- 8.5 litres of water for each 50 Kg bag of Premix Plaster LW. Add the powder to the water and mix with a mechanical plaster mixer or low speed electric drill fitted with a suitable paddle for 3-4 minutes, until a uniform, lump-free consistency is achieved.

For application using plastering machine, the recommended water flow rate is 300 - 500 ltr/hr depending on the status of the rubber pump.

Mixed material should be used within 90 min.

Do not add water to the mix once the mixed mortar starts to harden.

Application

Plaster Mix LW can be applied in a single or multiple layers on rough or smooth surfaces using spray machine at thickness of 10 - 25 mm per layer. Apply a spatter dash coat on smooth surfaces.

Rod or level to uniform thickness of 10 - 25 mm. When the material starts to set, follow smoothing the material to a desired appearance.

For multiple layers (which is not advised due to the design criteria of light weight structures) follow the practice in ASTM C926, 10 - 15 mm/layer with a rough finish, with curing for two days /layer prior application the second one, the final layer to be finished as desired.

After the surface appears stiff but still moist, follow the smoothing the material to achieve a desired appearance.

Curing

Plaster Mix LW is best cured by spraying water on the surfaces of applied materials every 8-12 hrs for minimum of 3 days. During hot & dry conditions allow curing for minimum of 5 days. It will help to obtain high mechanical strengths and minimize the risk of surface cracks.

Technical Data

Category	Typical Values
Appearance	Grey Powder
Aggregate Size	Up to 1.5mm
Wet Density	1.4Kg/lit \pm 0.1kg
Application Thickness	10 to 25 mm in a single layer or up to 10-15 mm when multiple layers
Pot Time	60 to 90 minutes
Setting Time	3 - 5 hours
Compressive Strength ASTM C109	\geq 4 N/mm ² @ 28 Days
Flexural Strength ASTM C348	\geq 1.4 N/mm ² @ 28 Days
Bond Strength EN 1015 - 12	\geq 0.3 N/mm ² @ 28 Days

All values are subject to 5-10% tolerance

Standards Compliance

- ▶ ASTM C348
- ▶ ASTM C109
- ▶ ASTM C270
- ▶ ASTM C780
- ▶ BS EN 998-2, Type G
- ▶ ASTM C1072

Legal disclaimer

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Design Criteria

Plaster Mix LW is designed to be used at thicknesses between 10 and 25 mm in a single application. The product can be applied on block walls without the need to use a scratch coat as long as the substrate is properly soaked prior to application.

Consumption

Plaster Mix LW usage yields 37 Liters

Packaging

Plaster Mix LW is supplied in 50 Kg bag size.

Shelf Life & Storage

Original sealed container of Plaster Mix LW has a shelf life of 12 months provided it is stored clear of ground in a dry shaded place below 25°C.

Health & Safety

Plaster Mix LW is highly alkaline therefore avoid direct contact with eyes or skin. It is recommended to use protective gloves and goggles during application. Any skin contact should be washed with soap and water. In case of eyes irritation, immediately wash with copious amount of clean cold water. Seek medical advice. Plaster Mix LW is non-flammable.

For further information, please refer to material safety data sheet.