

# Monnelli Gypsum Plaster

High quality light weight gypsum plaster

## Product Description

Monnelli Gypsum Plaster is composed of a retarded gypsum, selected aggregates and special additives. It is supplied as a dry powder in pre-weighed bags ready to use on site, which requires only addition of clean water to produce cohesive mix. Monnelli Gypsum Plaster is a high quality product and provides very smooth surface as underlayment for paints, decorative coatings & wallpapers.

## Uses

- ▶ Internal plaster on block walls and rough surfaces.
- ▶ Plastering on fairfaced concrete and precast panels.
- ▶ Improving thermal resistance properties as well as sound dampening.
- ▶ Plastering on AAC Blocks & panels.

## Advantages

- ▶ Factory controlled pre-blend ensures consistent high quality.
- ▶ Requires only addition of water on-site at the time of usage.
- ▶ Can be applied by plastering machine.
- ▶ Single coat application with improved workability.
- ▶ Easy application with uniform work flow enables high productivity & superior finishing.
- ▶ Strong adhesion on variety of substrates.
- ▶ A good smooth finish can be achieved.
- ▶ Suitable for normal humid & dry conditions.

## Usage Instructions

### Substrate Preparation

Substrate should be sound, clean, free from loose material, grease, laitance, dirt curing compound, etc. Prior to Monnelli Gypsum Plaster application, wet the entire surface with clean potable water and allow to dry.

### Mixing

For manual mixing, add to the mixing container 7.5-9 litres of water for each 25 Kg bag of Monnelli Gypsum Plaster or 350-400 Ltr/hr for machine application. 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.

Leave the mixed material to stand for 5 min and briefly remix without addition of water.

Manual mixing is allowed for small batch quantities and mix for approx. 1-2 min or when homogenous mix is achieved.

### Smooth Concrete Surfaces

Add 0.5 litres of Monnelli Bond to the mixing water and adjust the water requirement accordingly for each 25kg bag. Follow same mixing procedure as above.

Mixed material must be used within 30 minute. Do not add water once the mixed plaster mortar start to stiffen or hardened.

### Application

Monnelli Gypsum Plaster is generally applied in a single coat method. Use directly on block walls & rough surfaces.

Apply mixed material using spray machine or trowel technique to cover the area to desired thickness. Lightweight leveling tools are required in conjunction with trowel to fill in holes.

When the plaster stiffens lightly, treat the surface to a smooth level to eliminate all traces of protrusions and undulations.

Let the plaster set for about 30 min., using wet sponge, wipe the surface to a creamy smooth finish.

#### Curing

Let the Monneli Gypsum Plaster to fully dry itself. Do not use water.

Paints & Coatings can be applied once the plaster has dried out completely, generally after 7 days.

### Technical Data

Category	Typical Values
Appearance	White Powder
Aggregate Size	1.0 mm (max)
Application Thickness	3-20 mm
Wet Density	1.40 Kg/L $\pm$ 0.1
Open Time	30 minutes
Adjustability	10-15 minutes
Setting Time	3-5 hours
Compressive Strength (ASTM C472)	$\geq 4.0$ N/mm <sup>2</sup> @ 28 days
Flexural Strength (ASTM C348)	$\geq 1.0$ N/mm <sup>2</sup> @ 28 days
Bond Strength (EN 1015-12)	$\geq 0.8$ N/mm <sup>2</sup> @ 28 days

All values are subject to 5-10% tolerance

### Standards Compliance

- ▶ ASTM C28
- ▶ ASTM C22
- ▶ ASTM C472
- ▶ ASTM C842
- ▶ BS EN 13279 - 1&2

### Consumption

Monneli Gypsum Plaster usage yields 1.40 Kg per square meter for 1 mm thickness.

### Packaging

Monneli Gypsum Plaster is supplied in 25 Kg bag sizes.

### Shelf Life & Storage

Original sealed bags of Monneli Gypsum Plaster has a shelf life of 12 months provided it is stored clear of ground in a dry shaded place.

### Recommendations

- ▶ Do not mix with any additives or products, unless recommended by Monneli.
- ▶ Make sure the substrate is suitable for plaster coat application. In case of doubt, try on sample area to assess its suitability.
- ▶ Tools should be cleaned with water before the mortar hardens. After the hardening its residuals can be removed mechanically only.
- ▶ Do not apply the product at temperature less than +5 °C. During summer season the working area must be covered to prevent ill-effects from direct sun and also excessive air-draught during initial curing stage.
- ▶ For further information contact our technical department.

### Health & Safety

Monneli Gypsum Plaster is 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 wash with soap & water. In case of eyes irritation, immediately wash with copious amount of clean cold water. Seek medical advise.

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

### Legal disclaimer

Monneli endeavors to ensure that any advice, recommendations, information it may give, is accurate and correct. It cannot accept any liability either directly or indirectly arising from the use of its products, because it has no direct or continuous control over where or how its products are applied, whether or not in accordance with any advice, specification, recommendation or information given by us. Monneli has the right to change any of the specifications mentioned in the Technical data sheets upon its discretion without prior notification. Hard copies of TDSs are printed once or twice a year, while our technical data sheets are continuously being updated as per R&D improvements and new 3rd party testing; kindly refer to our website for the latest updated TDSs.

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