

# Monneli Acoustic Plaster

High quality light weight remixed acoustic plaster

## Product Description

Acoustic Plaster is composed of a retarded gypsum, Perlite & 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. Acoustic Plaster is a high quality product and provides sound and thermal insulation properties.

## Uses

- ▶ Theaters and auditoriums.
- ▶ Media and recording studios.
- ▶ Boiler, chiller and machine rooms.
- ▶ Where sound dampening is required.

## 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 with a suitable Rubber pump.
- ▶ Single coat application with improved workability.
- ▶ Easy application with uniform work flow enables high productivity & superior finishing.
- ▶ Strong adhesion on variety of substrates.
- ▶ Acoustical properties.
- ▶ Light weight plaster (half the normal sand/cement plaster)
- ▶ Significantly more resistant to heat transmission than normal sand/cement plaster.

## Usage Instructions

### Surface Preparation

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

### Mixing

For manual mixing, add to the mixing container 12-13 litres of water for each 25 kg bag of Acoustic Plaster or 12-14 litres/25 kg bag for hopper gun 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.

When required add 1.0 litres of Vetonit Bond 2 to the mixing water and adjust the water requirement accordingly for each 25 kg 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 harden.

### Smooth Concrete Surfaces

Add 0.5 litres of Vetonit Bond 2 to the mixing water and adjust the water requirement accordingly for each 25 kg bag. Follow same mixing procedure as above.

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

## Application

Acoustic Plaster is generally applied in a single coat method. Use directly on block walls & rough surfaces. On smooth surfaces apply first a coat of Vetonit Spatter Dash SB.

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.

For colors other than white, spray a Finish WR (desired colour) at 2 mm thickness over Vetonit Acoustic Plaster after 7 day cure.

For a maximum sound insulation results, the finishing pattern of Acoustic Plaster must be very rough.

## Curing

Let the Acoustic Plaster to fully dry itself. Do not use water curing.

## Technical Data

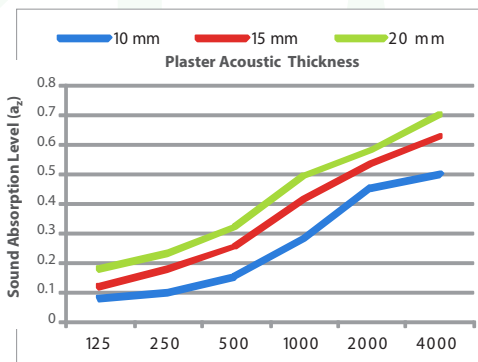
Category	Typical Values
Appearance	300 Microstrain 7 d 500 Microstrain 28 d
Maximum Aggregate Size	10 mm
Wet Density	Approximately 2.4 kg/ltr
Application Thickness	2.4 mm
Open Time	11x10 <sup>-6</sup> m/m per C
Sound absorption at 10 mm thickness	65 N/mm <sup>2</sup> 28 days
Average thermal conductivity	9 28 days.
Tensile Strength BS 4551	3 MPa 28 days
Compressive Strength ASTM C472	50 - 500 mm
Bond Strength EN 1015 - 12	10 gm / Liter (LEED Compliant)

All values are subject to 5-10% tolerance

## Standards Compliance

- ▶ ASTM C472
- ▶ BSEN 13279

Frequency (f Hz)	Absorption Level (az) at Acoustic Plaster Thickness		
	10 mm	15 mm	20 mm
125	0.08	0.12	0.18
250	0.10	0.18	0.23
500	0.15	0.25	0.32
1000	0.28	0.41	0.49
2000	0.45	0.53	0.58
4000	0.50	0.63	0.70



Frequency (f Hz)  
 10 mm mean NRC - 0.26  
 15 mm mean NRC - 0.35  
 20 mm mean NRC - 0.41

## Consumption

Acoustic Plaster usage yields 1.1 Kg per square meter for 1 mm thickness.

## Packaging

Acoustic Plaster is supplied in 25 Kg bag or bulk size.

## Shelf Life & Storage

Original sealed bags of Monneli Masonry Mortar has a shelf life of 12 months provided it is stored clear of ground in a dry shaded place below 25 °C.

## Health & Safety

Acoustic Plaster is alkaline, 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 advice.

## Legal disclaimer

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