

# Monneli AAC Mortar

Adhesive for autoclaved aerated  
concrete block

## Product Description

Monneli AAC Mortar is a powder adhesive composed of hydraulic binders, bonding agent, selected aggregates synthetic resins 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 easily workable mortar. Monneli AAC Mortar is ideal for fixing autoclaved aerated concrete blocks & panels.

## Uses

- ▶ For laying internal or external autoclave aerated concrete blocks & panels.
- ▶ For laying other types of aerated blocks or panels.

## Advantages

- ▶ Factory controlled pre-blend ensures consistent high quality.
- ▶ Requires only addition of water on-site at the time of usage.
- ▶ High adhesion.
- ▶ Good mechanical strength.
- ▶ Excellent workability.
- ▶ Suitable for internal & external applications.

## Usage Instructions

### Substrate Preparation

The AAC block/panel surface should be sound, clean, free from loose material, grease, laitance, dirt curing compound, etc.

Prior to Monneli AAC Mortar application, wet the entire surface with clean potable water. The surface should look damp at the time of Monneli AAC Mortar application.

### Mixing

Add to the mixing container 9-11 litres of clean water for 50 Kg bag of Monneli AAC Mortar. 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 10 min and briefly remix without addition of water.

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

## Application

Neutralize the suction of the block surface with water before applying mortar. Any excess water should be removed.

Ensure that the first layer of blocks is fixed properly with perfect alignment.

The Monneli AAC Mortar is spread with trowel on the surface and joints where the blocks are to be mounted.

Monneli AAC Mortar should be applied in a thin layer to enable the continuity of thermo-insulation of the blocks. Leave a space of about 2 cm between the top of block wall and the bottom of slab or beam in order to avoid formation of cracks along the wall. This cavity should be filled with compressible material.

If the blocks are laid directly on a floor with possible humidity rising, it is recommended to apply a proper damp course system first.

## Cleaning

All tools should be cleaned immediately after finishing by water. Hardened materials can be cleaned mechanically.

## Technical Data

Category	Typical Values
Appearance	White & Grey Powder
Aggregate Size	1.0 mm (max)
Application Thickness	3-10 mm
Wet Density	1.70 Kg/L (approx.)
Dry Density	1.40 Kg/L (approx.)
Pot Time	1 hr @ 25°C
Compressive Strength (BS EN 1015-11)	≥ 10 N/mm <sup>2</sup> @ 28 days
Flexural Strength (BS EN 1015-11)	≥ 1.20 N/mm <sup>2</sup> @ 28 days
Adhesive Strength	≥ 0.67 N/mm <sup>2</sup> @ 28 days

All values are subject to 5-10% tolerance

## Standards Compliance

- ▶ BS EN 998-2

## Consumption

Monneli AAC Mortar usage yields 1.3-1.5 Kg per square meter for 1 mm thickness.

## Packaging

Monneli AAC Mortar is supplied in 25 & 50 Kg bag sizes.

## Shelf Life & Storage

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

## Recommendations

- ▶ After application, avoid rapid evaporation of water that may cause the small superficial fissures appearance due to plastic shrinkage.
- ▶ Damp the surface for the initial 48 hours by spraying water and covering it with impermeable sheets. Subsequent plastering may commence after 1 day during summer, and preferably after 2-3 days during winter season.
- ▶ The product should not be exposed to moving water during application.
- ▶ 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.

## Health & Safety

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

Monneli AAC Mortar is non-flammable.

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

## Legal disclaimer

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