



Vetonit AAC Masonry Mortar AAC520

Thin Bed Mortar for Autoclaved
Aerated Concrete block

Uses

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

Product Description

Vetonit AAC Masonry Mortar is a powder mortar composed of portland cement, bonding agent, graded sand aggregates and special additives. It is supplied as a dry powder in pre-weighed bags ready to use on site, which requires only addition to clean water to produce easily workable mortar. Vetonit AAC Masonry Mortar is ideal for fixing autoclaved aerated concrete blocks & 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.
- Manufactured from local raw materials.
- Free from Asbestos or Asbestos Containing Materials.
- Non combustible, Reaction to Fire Class A1 (BS EN 998-2).

Standards Compliance

- ASTM C-150, type I or BS EN 197-1
- ASTM C-144
- ASTM C-1660
- BS EN 998-2

Technical Data

AAC Masonry Mortar	Typical Values @ 25°C
Appearance	Grey or White colour Powder
Aggregate size	1 mm. max
Ideal Application thickness	3 - 5 mm
Dry Density (kg/Liter)	1.40 approx.
Wet density (Kg/Liter)	1.70 approx.
Compressive Strength @ 28 day	≥ 4 N/mm ²
Flexural Strength @ 28 day	≥ 1 N/mm ²
Bond Strength @ 28 days	≥ 0.40 N/mm ²

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 mortar application, wet the entire surfaces with clean potable water and surface should look damp at the time of AAC Mortar application.

Mixing

Add to the mixing container 10.5 - 14.0 litres of clean water for 50 Kg bag of 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.

Mixed mortar shall be used within maximum one hour of mixing. Dont use set mortar and do not retemper after setting.

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 proper with perfect alignment.

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

AAC Mortar should be applied in a thin layer (3-5 mm.) 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.

Packaging & Coverage

Product	Pack Size	Consumption
AAC Masonry Mortar AAC520	50 Kg Bag	1.4 - 1.6 Kg/m2/ 1mm thickness

Stated consumptions data are for general guidance. Actual consumption depends on the nature of substrate, method of application and wastage.

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Shelf Life & Storage

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

Curing & Environmental Conditions

After application, protect the built walls from any type of physical movement to avoid weakening the mortar bond.

Damp the built wall for the initial 48 hours by spraying water and covering it with impermeable sheets.

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 is recommended to be covered or shaded to prevent ill-effects from direct sun or strong dry winds.

Health & Safety

Vetonit AAC Masonry 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 advice.

AAC Mortar is non-flammable.

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