Shieldfix AAC

Pre-mixed, Cement-based Adhesive for Autoclaved Aerated Concrete Blocks and Lightweight Masonry

TECHNICAL DATA SHEET

Description

Shieldfix AAC is a single-component, cement-based jointing, and bedding mortar for autoclaved aerated concrete blocks and lightweight blocks. It is supplied as a ready-to-use blend of dry powders that requires the addition of clean water on site. **Shieldfix AAC** can be applied at thicknesses from 5 mm to 10 mm.

Uses

- As a bedding mortar for lightweight masonry units, concrete blocks, and cement bricks.
- As a jointing and pointing material for AAC block walls and partitions.
- As a masonry mortar for aerated lightweight concrete blocks or any other high absorption construction elements.

Characteristics / Advantages

- Factory-controlled, pre-blended dry mix that requires the addition of clean water on site.
- Easy to mix and apply.
- Superior adhesion strength with different cement-based surfaces such as AAC blocks and lightweight blocks.
- Suitable for internal and external applications.
- Excellent physical properties.

Shelf Life and Storage

Shieldfix AAC has a shelf life of 12 months when stored in its original unopened packaging in cool and dry conditions, protected from direct sunlight, heat, and moisture. Shelf life may be reduced if the recommended storage conditions are not followed.

Safety Instructions

Shieldfix AAC may cause irritation to skin or eyes. Avoid prolonged exposure to dust and wear mask during application. Avoid direct contact with skin or eyes when possible and wash immediately with water and soap. Get medical advice or treatment if any emergency warning signs appear. Refer to the most recent Material Safety Data Sheet for information and advice on the safe handling, storage and disposal of the product.

Typical Properties

Color / Appearance	Grey/ white powder
Maximum Aggregate Size	600 µm
Fresh Wet Density @ 25℃	1.85 ± 0.10 g/ml
Working Time @ 25℃	60 – 80 minutes
Application Temperature	+5 to +40℃
Compressive Strength (EN 1015-11)	≥ 8 MPa
Full Cure	28 days

Packaging

Shieldfix AAC is supplied in 25 kg packs.

Application Instructions

1. Surface Preparation

The substrate must be free from dust, loose materials, surface contamination, or any materials that may reduce bond or prevent adhesion.

Thoroughly dampen the surface of concrete blocks with clean water to provide a Saturated Surface Dry condition (SSD).

2. Mixing

Pour 5.0 liters of clean water into a suitable container. Add the entire content of **Shieldfix AAC** (25 kg) to the water gradually and mix using a low-speed mixing drill fitted with a suitable mixing paddle. Continue mixing for 2 – 3 minutes until achieving a homogenous mix. Let the material stand for 2 – 3 minutes prior to application.

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3. Application

Apply the mixed material of **Shieldfix AAC** to the prepared surface manually using a spatula or hand trowel at 5 – 10 mm thickness. Mortar must be well pressed to ensure a proper adhesion to substrate.

4. Cleaning

All mixing and application equipment should be cleaned immediately with clean water. Hardened material should be mechanically removed.

5. Curing

Curing is not normally necessary but freshly applied material should be protected from rain, until fully dry, to ensure optimum performance.

Technical Support

Refer to technical information, method statement, or contact technical support team for any inquiry.

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