TECHNICAL DATA SHEET

THERMOBOND

Adhesive Mortar for Autoclaved Aerated Concrete Block

Description

THERMOBOND is a cement-based adhesive mortar when mixed with water produce gives a high bonding and adhesion property for autoclaved aerated concrete blocks. It is consisting of Portland cement, synthetic polymer, silica sand and special additives formulated to obtain optimal characteristics of workability once cured generates a high adhesion power.
THERMOBOND is an Eco-friendly product that contains no asbestos fiber or any harmful additives.

Features & Benefits

- Pre-packed, Factory controlled quality
- Easy to apply with high workability
- Environment friendly
- High strength and bonding properties
- Formulated for hot weather climate

Uses

THERMOBOND is used for laying AAC (Autoclaved Aerated Concrete) block and clay bricks for both internal and external areas. It has high bonding and strength properties with durable performance.

Technical Properties

Appearance	Cementitious mix
Color	Grey / White
Dry Density	1,650 Kg/m^3 approx.
Compressive strength	≥12 N/mm^2 @ 28 days
Flexural Strength	3.0 N/mm^2 @ 28 days
Adhesion to surface	Failure in block cohesion
Workability time	45 min @ 25 ^oC
VOC	<1.0 g/L

All values are subject to 5-10% tolerance

Standards Compliance:

- ASTM C270, C150 & C144
- BS EN 998-2

Application Procedures

Surface preparation:
All block surfaces must be free from dust, loosely adhered material, cement droppings, grease, oil, etc.

Mixing Instructions:

To prepare the mixture, pour 9.5-10 liters of clean water into container and add slowly the content of **THERMOBOND** (50 Kg bag). Mix using spiral paddle in slow speed heavy duty drill for 3-5 minutes till a homogeneous lump free consistency mix is achieved.

Application Instructions:

First layer of AAC block can by laid on concrete slab with traditional cementitious mortar. **THERMOBOND** mix can be laid on the sides of blocks to obtain good adhesion.
THERMOBOND mortar with special toothed trowel in a thin layer (3mm thickness) to enable the continuity of the thermal insulation characteristic for block. Pay attention that the adhesive spread on the blocks has not formed a superficial film. In this case apply fresh mix.
Plaster work can be started after 24 hours of fixing block. Use SUPER RUSH S as bonding key coat before applying plaster.

Coverage

THERMOBOND mortar can be applied in a rate of 4-5 kg per m^2.

Packaging

THERMOBOND is available in 50kg bag.

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Storage

Keep the product in dry and sheltered place at temperature between +5ºC to +35ºC. In these conditions and in closed original containers, the product will have a shelf life of at least 12 months.

Health and Safety

Wear gloves, goggles to avoid any contact with eyes and skin. In case of splashes in the eyes wash abundantly with warm water and consult a doctor.

For further information or particular use, contact SBI Technical Department.

Quality & Care

All products produced in SBI facilities are manufactured under a management system certified to conform to the requirements of the quality and environmental health & safety standards ISO 9001 & ISO 14001.

SBI products are guaranteed against defective materials and manufacture and are sold subject to its standard Conditions for the Supply of Goods and Service. All SBI datasheets are updated on a regular basis. It is the user's responsibility to obtain the recent version.

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