

ADHCRETE CONSTRUCTION TECHNOLOGY INDIA PVT LTD

Registered Office: Sumukha Complex Uppunda 576232 Ph: (08254) 256760

Factory: Yederi Kalthodu Village, Kundpura Tq Pin-576219

Technical Data Sheet

ADHCRETE AAC BLOCK LAYING ADHESIVE

PRODUCT DESCRIPTION

AAC BLOCK LAYING ADHESIVE is a factory prepared blend of carefully selected raw materials, portland cement and graded aggregates and polymers. Designed for mix with water to produce high strength thixotropic mortar, for laying aerated light weight concrete, fly ash bricks, cement hollow blocks, cellular concrete blocks or smoothing over the block work surface in layers of up to 12mm thickness, that meet and exceed the requirements of National and International Standards

APPLICATION

For interior and exterior use for preparing thin bed block mortar for alc and cellular concrete blocks

ADVANTAGES

- Premixed Ready to use, only need to add water at site
- High Water Retention Capability
- High Bonding Strength due to Polymer Modification of Mortar
- No Curing
- Thin Joint Application Prevent Shrinkage Cracks.
- Due to Premixed its save times for lengthy process like mixing materials, transport and separate →inventory of material.
- Plastering can be done after 24 hrs. of application

SUITABLE SUBSTRATES

- Concrete blocks
- Aerated light weight blocks
- Fly ash bricks
- Cement mortar blocks/bricks
- Concrete hollow block
- Cellular concrete blocks
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- **PACK SIZE**
20 kg and 30 kg

COVERAGE

THICKNESS	FOR 30 KG	FOR 50 KG
3MM	85 Sq.ft.	135 Sq.ft.
6MM	40 Sq.ft.	70 Sq.ft.
9MM	30 Sq.ft.	50 Sq.ft.

*Coverage shown in the chart only for reference actual may vary depending on site condition

Technical Data and Application Properties at 73° F (23° C) and 50% Relative Humidity

SHELF LIFE: 1 Year (If It Is Stored In Cool, Dry Place In Original Pack)

WATER DEMAND: 7.5 To 8.5 Litres For 30 Kg Powder

OPEN TIME: Approximately 15 Min

ADJUSTMENT TIME: Approximately 15 Min

POT LIFE: Approximately 4 Hours

SHEAR BOND STRENGTH (28 DAYS) Minimum 250 PSI/1.72N/Mm²

COMPRESSIVE STRENGTH (28 DAYS) Minimum 2200 PSI/15.16N/Mm²

Specifications subject to change without prior notification and may not reflect immediately on TDS. Values shown in the table depends on laboratory condition and test procedure used. Actual field performance may vary on site condition and method of installation used. Company is not liable if failed to produce mentioned result in the site.

INSTALLATION INSTRUCTIONS

SURFACE PREPARATION

Proper surface preparation is essential for the correct installation of any floor covering. Surface must be structurally sound, smooth, and dry. Glossy or painted surfaces must be sanded, stripped and cleaned of waxes, dust grease, loose material and any other contamination, which may interface with good bond. Surface temperature should be maintained between 10° C to 38° C for good adhesion. Concrete bricks/blocks /wall to dry out by exposure to air for at least 28 days.

MIXING

The standard mixing ratio is 7.5 to 8.5 ltrs of water for 30 kg. Put clean water or recommended latex admixture in the mixing container first, then add ADHCRETE AAC BLOK LAYING ADHESIVE. For best result, mix with mixing paddle and 1/2" heavy-duty drill. To mix by hand, use a margin trowel and mix vigorously. Mix with hand or slow speed mixer until its obtain a homogeneous lump free paste. Let the properly mixed adhesive to slake for 4 to 5 minutes. Remix again for 2 minutes and apply with the recommended notched trowel. Properly consistence mixed material will settle in the substrates in the form of strips (ridges) without slump when it is applied on substrates.

APPLICATION PROCUDER

1)Thin bed mortar for laying blocks: Before placing mortar, ensure the block work to be dry and surfaces cleaned properly. Use properly seized notched on trowel to ensure 100% coverage under a block. Place the mixed mortar on the block work in thin layers of 2 to 3 mm (or as required by engineers at site) using trowel and place the next layer of blocks on the mortar. Keep joints between the blocks as required by the site engineers and fill the joints with the mixed mortar, using a trowel. Check the plumb of the wall while laying the blocks to keep the walls perfectly vertical to the plumb.

2) Smoothing over the block work: Before placing mixed mortar, apply a bonding layer of 1 to 2mm thick AAC Block Adhesive mortar using a trowel pressing down on the block work. Then apply AAC Block Adhesive at a thickness of 8 to 10mm and smoothen using a sponge or rubber / wooden float

3) Installation of Tiles: It can be used as thin-set adhesive to install tiles on Block /brick walls. Use proper notch trowel to installation of tiles and stone on the wall.

If possible, spread in approximately one square meter at a time. Only apply as much adhesive mixture as can be covered with tiles within a open time. Check open time by touching the adhesive bed with your fingertip because open time will be vary depends on temperature and humidity.