



MAGIKOL

PowerFix Block Joining Adhesive

PRODUCT DESCRIPTION

AAC Block Adhesive is a factory prepared blend of carefully selected raw materials, Portland cement and graded aggregates and polymers.

Designed for use 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 adhesive for AAC, ALC and cellular concrete blocks.

Advantages

- High Strength
- No curing required after block work is done.
- Flexible, shock & impact resistant
- Improved adhesion between two blocks
- improved bond strength, compressive & tensile strength
- Thin jointing with high adhesion to contribute to load bearing capacity of masonry
- easy to use
- Long working time
- Fast & economical

Suitable Substrates:

- Concrete Blocks
- Cement Mortar Blocks/Bricks
- Concrete hollow blocks
- Aerated Light weight blocks
- Cellular concrete blocks
- Fly Ash Bricks

Packaging :

40 Kg bag

Colour:

Grey

Coverage:

Coverage is based on smoothness and evenness of the substrate, size of blocks used and the thickness of mortar used. A general guide line for coverage of mortar is given when used with 30% Water is added to powder

The following is the coverage table for wall area in Square feet that can be constructed using AAC Blocks of size 600mm X 200mm X 100mm

Thickness	Coverage for 40 Kg bag
2 mm	240 Sft
3 mm	160 Sft
4 mm	120 Sft
5 mm	96 Sft
6 mm	80 Sft

NOTE: Coverage depends on the substrate evenness and the thickness at which the AAC Block adhesive is applied.

Shelf Life:

Factory sealed bags of this product are guaranteed to be of first quality for Six (6) Months* if stored off the ground in a dry area, at 21°C and 50% RH.

*High humidity will reduce the shelf life of bagged product

Limitations:

- Adhesives/mastics, mortars and grouts for ceramic tile, pavers, brick and stone are not replacements for waterproof membranes. When a waterproof membrane is required.

Cautions:

- During cold weather, protect finished work from use until fully cured.
- Contains Portland cement and silica sand. May irritate eyes and skin. Avoid contact with eyes or prolonged contact with skin. In case of contact, flush thoroughly with water.
- Do not take internally. Silica sand may cause cancer or serious lung problems. Avoid breathing dust. Wear a respirator in dusty areas.
- Keep out of reach of children

TECHNICAL DATA

Applicable Standard:

Conforms to ANSI A118.1 & ANSI A118.4-1999

Performance Properties:

AAC BLOCK ADHESIVE mixed with water

Test	Results
Compressive strength	>5 MPa
Flexural Strength	>3 MPa
Tensile Adhesion strength	>1MPa

Working Properties:

AAC BLOCK ADHESIVE mixed with water (70°F (21°C))

Pot Life	120 Min
Open Time	30 Min
Time to Plaster	24 hours
Time to full dry hard	14 Days
Wet Density	1750 kg/m ³

Specifications are subject to change without notification. Results shown are typical but reflect test procedures used. Actual field performance will depend on installation methods and site conditions

INSTALLATION

Surface Preparation:

All surfaces should be between 40 °F (4°C) and 90°F (32°C) and structurally sound, clean and free of all dirt, oil, grease, concrete sealers or curing compounds. Rough or uneven concrete surfaces should be made smooth to provide a wood float (or better) finish. Installation may be made on a damp surface.

All slabs must be plumb and true to within ¼" (6mm) in 10 ft (3m).

Follow ANSI Specification AN-3.8 "Requirements for Expansion Joints". Do not cover expansion joints with mortar.

Mixing :

Use approx. 40kg of AAC Block Adhesive thin bed mortar with Approx 12 ltrs of potable water. Take water in the container and slowly add the powder into the water while mixing by hand or slow speed mixing machine. Mix for 3 to 5 minutes till a smooth thixotropic mix without lumps is obtained.

Application

1) Thin bed mortar for laying blocks:

Before placing mortar, ensure the block work to be dry and surfaces cleaned properly. 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) As Adhesive to install tiles:

AAC Block Adhesive can be used as a thin-set adhesive to install tiles/stones on AAC Block/Fly ash brick walls. Use a suitable notch trowel to achieve desired thickness of adhesive for installation of tiles /stones on the wall

Plaster:

Plumb, square and true concrete block wall can be finished with the applications of Special polymer plaster from MAGIKOL.

Plasters made with site mix may slump and powder due to water absorption of the block work.

Cleaning:

Clean tools and containers with water while mortar is fresh.

AVAILABILITY AND COST OR TECHNICAL SERVICE

Availability

For distributor or area dealer information:

Telephone: +91-022-49704245

e-mail: info@magikol.co.in

Cost

Contact a MAGIKOL Distributor in your area

Magikol Industries LLP.

B 28, Pravasi Industrial Estate, Off Array Road,

Goregaon East, Mumbai 400063

Telephone: +91 022 49704245

e-mail: info@magikol.co.in

Website: www.magikol.co.in

MAINTENANCE

MAGIKOL grouts require routine cleaning with a neutral pH soap and water. All other MAGIKOL materials require no maintenance but installation Performance and durability may depend on properly maintaining products supplied by other manufacturers.

WARRANTY

MAGIKOL Industries warrants that AAC BLOCK ADHESIVE, Thin bed mortar is free from manufacturing defects and will not break down, deteriorate or disintegrate under normal usage for a period of Six (6) Months from date of manufacture, subject to the terms and conditions stated in MAGIKOL Product Warranty

