



**MYK LATICRETE**

## AAC Block Adhesive



Polymer based thin-set adhesive for laying and construction with AAC Blocks and other light weight masonry units

### Features / Benefits

- Improved bond strength
- No curing required after block work is done
- Flexible, shock & impact resistant
- Optimum compressive & splitting tensile strength
- Easy to use
- Long working time
- Fast & economical

### Substrates

- AAC Blocks
- Cement Mortar Blocks/Bricks
- Concrete hollow blocks
- Light weight masonry blocks
- Cellular concrete blocks
- Fly Ash Bricks
- Calcium silicate bricks
- Clay Bricks

### Application

For interior and exterior use for construction with thin bed mortar for AAC, ALC and cellular concrete blocks.

### Certification

IS 2250

ASTM C 1660, C 2250 & C 270

Member of  
Indian Green Building Council



ANSI A 118.1

## TECHNICAL DATA

### Performance Properties:

AAC Block Adhesive mixed with Water

### Applicable Standards:

ANSI A 118.1T, ASTM C 1660, ASTM C 270, IS 2250 & EN 12004 / ISO13007 (Class C1T)

ANSI Data		
Property : Test method	Requirement	Typical Values
Open Time (20 Minutes at 28 days): ANSI A118.1 Clause – 5.3	≥75 psi (0.50 Mpa)	95 psi – 100 psi (0.65 – 0.69 Mpa)
Sag: ANSI A118.1- Clause 6.0	≤0.02 Inches (0.50 mm)	0.016 – 0.018 Inches (0.40-0.45 mm)
Glazed wall tile Shear Strength		
7 Days: ANSI A118.1 – Clause 7.1.2	>200psi (1.38Mpa)	200-225 psi (1.38 Mpa-1.55 Mpa)
7 Days Water immersion: ANSI A118.1- Clause 7.1.3)	>150psi (1.03Mpa)	150-175 psi (1.03 Mpa-1.20 Mpa)
Porcelain Mosaic Tile Shear Strength		
1 Day: ANSI A118.1 – Clause 7.2.2	>50psi (0.34Mpa)	50 -75 psi (0.34 Mpa-0.51 Mpa)
7 Days: ANSI A118.1 – Clause 7.2.3	>150psi (1.03Mpa)	150-175 psi (1.03 Mpa-1.20 Mpa)
7 Days Water immersion: ANSI A118.1 – Clause 7.2.4	>100psi (0.69Mpa)	125-150 psi (0.86 Mpa-1.03 Mpa)
28 Days: ANSI A118.1 – Clause 7.2.5	>150psi (1.03Mpa)	150-175 psi (1.03 Mpa-1.20 Mpa)
12 Weeks: ANSI A118.1 – Clause 7.2.6	>150psi (1.03Mpa)	150-175 psi (1.03 Mpa-1.20 Mpa)

The adhesive mortar conforms to ANSI A 118.1T

ASTM C 1660 Data		
Property: Test Method	Requirement	Typical Values
Splitting Tensile Strength: Test Method ASTM C1660	58 -71 psi (0.40 – 0.49 MPa)	50 – 70 psi

The adhesive mortar conforms to ASTM C 1660

ASTM C 270 Data		
Property : Test method	Requirement	Typical Values
Compressive Strength : ASTM C109	Minimum 750 psi (5.2Mpa)	850-950 psi
Water Retention: ASTM C1506	Minimum 75%	85%-90%
Air Content : ASTM C91	Maximum 14%	10%-12%

The Adhesive mortar conforms to ASTM C 270

ASTM C 2250 Data		
Property: Test Method	Requirement	Typical Values
Compressive Strength: Appendix A	5.0-7.5 MPa	5.5 – 6.5 MPa
Consistency: Appendix B	130-150 mm	135-145 mm
Water Retention: Appendix C	Minimum 70%	85%-90%

The adhesive mortar conforms to ASTM C 2250

*Specifications 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.*

### Packaging:

20 kg & 50 kg bags

### Colour:

Grey

### Coverage:

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

Mortar Bed Thickness	Coverage for 50 Kg bag	Coverage for 20 Kg Bag
2 mm	300 Sft	120 Sft
3 mm	200 Sft	80
4 mm	150 Sft	60

*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.*

### Working Properties at 70° F (21° C)

AAC Block Adhesive mixed with Water

Adjustability time	20 minutes
Pot Life	2 Hours

## 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 with MYK LATICRETE Latex Portland Cement underlayment 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" or TCA Detail EJ171 "Expansion Joints".

Do not cover expansion joints with mortar.

**NOTE:** In order to realize all the product advantages, for high quality construction and best performance, it is necessary to follow the AAC Block Manufacturer's instructions or IS 6041 or other relevant codes and good practices.

### **Mixing:**

Use approx. 50kg of AAC Block Adhesive thin bed mortar with Approx. 15 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) As Adhesive to install tiles:**

AAC Block Adhesive can be used as a thin-set adhesive to install tiles/stones on masonry 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 MYK Laticrete.

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.

## CUSTOMER CARE

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