

M 15

Thin bed adhesive for AAC blocks

DESCRIPTION

M 15 is a grey, polymer modified, water resistant adhesive suitable for AAC block work.

FEATURES

- Polymer modified adhesive
- Good adhesion strength
- Easy mixing & application
- No curing required

STANDARDS APPLICABLE

ASTM C 1660, ASTM C 270, IS 2250

PHYSICAL PROPERTIES

M 15 @ 27 ± 1°C

Mixed Density	1.70 g/cc
Mix Proportions (W/P)	0.23 - 0.26
Open Time	20 minutes
Pot Life	3 hours
Setting Time	
Initial	10 hours
Final	11 hours
Fineness by dry condition	32%
VOC Content	0.66 g/l

ASTM C 1660		
Property	Requirement	Typical Values
Split Tensile Strength (28 days)	0.40 MPa	0.5 Mpa
ASTM 270		
Compressive strength @28days (ASTM C 109)	Min 5.2 Mpa	6.4 MPa
Air content 1.73 (ASTM C 91)	Max 12%	1.73%
Water Retentivity (ASTM C91)	Min 75%	87%
IS 2250		
Compressive strength @28 days	3 to 5 for MM 3 Grade	6.3 MPa
Consistency (Flow) (IS 2250)	130-150mm	150mm
Water retentivity (IS 2250)	Min 70%	90%

COVERAGE ESTIMATES

Pack size

26 kg

Coverage

Refer table for standard AAC blocks & for other blocks refer the formula

AAC Block sizes in mm			Approx consumption @ 3mm thickness	
Length	Height	Width	kgs/smtr	kgs/m ³
600	200	200	6.60	33
600	200	150	4.90	33
600	200	100	3.30	33

Theoretical coverage calculation:

$$\frac{(\text{Block Length} + \text{Block Height}) \times \text{Block Width} \times \text{Adhesive Thickness} \times 1.7}{(\text{Block Length} + \text{Adhesive Thickness}) \times (\text{Block Height} + \text{Adhesive Thickness})} = \text{kg/m}^2$$

All the dimension are in mm

APPLICATION INSTRUCTIONS

Surface Preparation

Before starting any work ensure that the base is:

- Sufficiently flat to permit the specified thickness.
- Suitable for Brick/Block work in the service conditions to which it will be exposed.
- Surfaces must be dry, clean and free from all contamination.

Mixing

In a clean mixing vessel, take clean water and add M 15. Mix thoroughly until a slump-free mortar is obtained. A 26 kg bag will require approximately 6.00 - 6.75 litres of water, in case of volume mixing use water: M 15 ratio of 1:3. The adhesive is immediately ready-for-use and has a pot-life of 3 hours at 27 ± 1°C. No further water should be added.

Application

- Apply M 15 at required thickness and smoothen using flat trowel.
- Clean off surplus adhesive from the surface.
- Do not use in damp conditions.
- Plastering/tiling can be done after 24 hours.

CLEANING

Tools and containers may be cleaned using clean water when the adhesive is still fresh. The hardened adhesive can be removed from tools mechanically.

STORAGE AND SHELF LIFE

M 15 has a shelf life of 12 months if kept in a dry, clean store between 5°C and 30°C in the original unopened containers. The product should be protected from frost, away from direct sunlight and sources of heat.

PRECAUTIONS

Keep out of reach of children. Wear suitable protective clothing, gloves and eyes/face protection. After contact with skin, wash immediately with plenty of clean water. In case of contact with eyes rinse immediately with plenty of clean water and seek medical advice.

DISPOSAL

Disposal of the empty packaging should be in accordance with local waste disposal authority regulations.

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For further information please refer to the Material Safety Data Sheet.

CONDITIONS OF SALE

Sold subject to the Company's conditions of sale which are available on request.

NOTE

The information supplied in this datasheet is based upon extensive experience and is given in good faith in order to help you. Our Company policy is one of continuous Research and Development; we therefore reserve the right to update this information at any time without prior notice. We also guarantee the consistent high quality of our products. However, as we have no control over site conditions or the execution of the work, we accept no liability for any loss or damage which may arise as a result thereof



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