

BLOCK MOTOR

Thin bed adhesive for AAC blocks

DESCRIPTION

Block Motor is a grey, polymer modified, water resistant adhesive suitable for AAC block work.

FEATURES

- Curing free-water save.
- No shrinkage cracks.
- Superior bonding.
- Economic.
- Excellent high strength.

PHYSICAL PROPERTIES

BLOCK MOTOR	@ 27 ± 1°C
Mixed Density	@ 1.8 g/cc
Bed Thickness	2-6 mm
Open Time	20 minutes
Pot Life	2 hours
Setting Time	
Initial	11 hours
Final	24 hours
Compressive strength (ASTM C-109)	>7 N/mm ² @ 28 days by air curing
Shear adhesion strength (IS 15477)	
After 1 day	6kN
After 14 days	10 kN
Tensile adhesion strength	0.70kN
Tensile strength	1 N/mm ² @ 28 days by air curing
Split Tensile Strength (ASTM C 1660)	
7 days	1.58 N/mm ²
28 days	1.92 N, mm ²
Flexural Strength (ASTM CC580)	2.5 N/mm ² @ 28 days by air curing
Consistency	155 mm
Fineness by dry condition (IS 4031)	32%
Water retentivity	90%
Bulk Density	1550 ± 50 KG/m ³

COVERAGE ESTIMATES

Pack size
40 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	7.07	35.29
600	200	150	5.31	35.29
600	200	100	3.54	35.29

Theoretical coverage calculation:

$$\frac{(\text{Block Length} + \text{Block Height}) \times \text{Block Width} \times \text{Adhesive Thickness} \times 1.8}{(\text{Block Length} + \text{Adhesive Thickness}) \times (\text{Block Height} + \text{Adhesive Thickness})} \text{ kg/m}^2$$

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 Block Motor. Mix thoroughly until a slump-free mortar is obtained. A 40kg bag will require approximately 10.50 - 10.80 litres of water. 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 Block Motor 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.

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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

Block Motor has a shelf life of 12 months if kept in a dry, clean store between 5°C and 45°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.

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