

STRONG BOND BLOCK ADHESIVE

Polymer-Modified Block Joining Mortar · IS 2250 / ASTM C270 / ASTM C1660

Polymer based block adhesive for laying and construction with AAC blocks and other light-weight masonry units.

IS 2250 COMPLIANT	ASTM C270 & C1660	40 KG BAG SINGLE COMPONENT	INTERIOR & EXTERIOR THIN BED MORTAR
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FEATURES & BENEFITS	SUBSTRATES
- 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 - Stronger adhesion, consistent quality - Superior / advanced technology - Longer pot life, reduces wastage	- 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.

WORKING PROPERTIES — at 70°F (21°C), mixed with water

Pot Life	Hard Dry
3 hours	24 hours

5.3-6.0 MPA COMPRESSIVE (IS 2250)	850-950 PSI COMPRESSIVE (ASTM C109)	53-68 PSI SPLITTING TENSILE	240 ft² COVERAGE @ 2MM / 40KG
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IS 2250 — PERFORMANCE DATA

Property / Test Method	Requirement	Typical Value
Compressive Strength (Appendix A)	5.0 – 7.5 MPa	5.3 – 6.0 MPa
Consistency (Appendix B)	130 – 150 mm	135 – 145 mm
Water Retention (Appendix C)	Minimum 70%	85% – 95%

ASTM C270 & ASTM C1660 — PERFORMANCE DATA

Property / Test Method	Requirement	Typical Value
ASTM C270		
Compressive Strength (ASTM C109)	Min. 750 psi (5.2 MPa)	850 - 950 psi
Water Retention (ASTM C1506)	Minimum 75%	85% - 90%
Air Content (ASTM C91)	Maximum 14%	10% - 12%
ASTM C1660		
Splitting Tensile Strength	58 - 71 psi (0.40 - 0.49 MPa)	53 - 68 psi

Applicable standards: ASTM C1660, ASTM C270, IS 2250. Specifications subject to change without notice. Results shown are typical and reflect the test procedures used; actual field performance depends on installation method and site conditions.

COVERAGE — PER 40 KG BAG

Coverage table for wall area (in ft²) using AAC blocks of size 600 mm x 200 mm x 100 mm.

Mortar Bed Thickness	Coverage per 40 kg Bag
2 mm	240 ft ²
3 mm	160 ft ²
4 mm	120 ft ²

MIXING

Use approximately 40 kg of Strong Bond Block Adhesive thin bed mortar with approximately 11 to 11.6 litres of potable water. Take water in the container and slowly add the powder into the water while mixing by hand or a slow-speed mixing machine. Mix for 3 to 5 minutes until a smooth, thixotropic mix without lumps is obtained.

SURFACE PREPARATION

All surfaces should be between 40°F (4°C) and 90°F (32°C), 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 a 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" (6 mm) in 10 ft (3 m). Follow ANSI Specification AN-3.8 or TCA Detail EJ171 for expansion joints; do not cover expansion joints with mortar.

To realize all product advantages, for high quality construction and best performance, it is necessary to follow the AAC block manufacturer's installation recommendations.

INSTALLATION

Block mortar for laying blocks — Before placing mortar, ensure the block work is dry and surfaces are 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 a 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.

Provide bond beams as suggested by the design engineer at site, which reduce the incidence of cracks in the block work during service periods.

PLASTER

A plumb, square and true concrete block wall can be finished with the application of Special Polymer Plaster from Strong Bond. Plasters made with site mix may slump and powder due to water absorption of the block work.

CLEANING

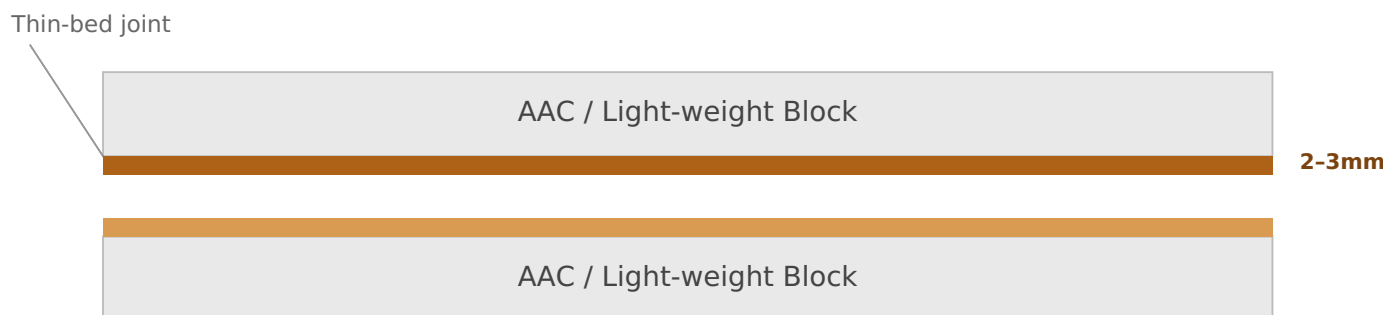
Clean tools and containers with water while the mortar is fresh.

Note — It is recommended to plaster the surface of AAC block walls and cure as per the standards before installation of tiles or stones over the walls. We do not recommend installing tiles and stones directly over the surface of AAC block walls.

PACKAGING & SHELF LIFE

Packaging	Appearance	Colour	Shelf Life	Storage
40 kg bag	Free flowing powder	Grey	1 year from date of manufacture, factory-sealed	Store off the ground in a dry area. High humidity will reduce the shelf life of bagged product.

TYPICAL INSTALLATION BUILD-UP



Schematic representation only, not to scale. Follow the surface preparation and installation steps above for actual construction.

DISCLAIMER

The information in this data sheet is based on our present knowledge and experience and is offered in good faith. Specifications are subject to change without notice. Results shown are typical values from internal test procedures; actual field performance depends on installation methods and site conditions, and should be verified by the user for the intended application.