






NUVOCO ZERO M BLOCK JOINTING MORTAR

PREMIX HIGH-QUALITY MORTAR

DESCRIPTION

NUVOCO ZERO M BLOCK JOINTING MORTAR is a premix high quality mortar for jointing and bonding of all types of substrates like AAC Blocks, Concrete Blocks Hollow Blocks and Bricks. It consists of cement, graded sand & specialized polymers which combine to give superior strength, water retention and stability. It replaces the conventional method and material of jointing mortar which requires 12-18 mm thickness with a revolutionary 3 mm joint thickness and only requires addition of water before application to prepare the product for use. The product technical parameter complies with ASTM C 1660-09.

FEATURES

-  No Water Curing
-  Excellent Bond Strength
-  Optimum Water-Mortar Ratio
-  Convenient
-  Economical



AREAS OF APPLICATION

- AAC blocks • Concrete blocks (Solid & hollow) • Bricks

TECHNICAL INFORMATION

PHYSICAL PROPERTIES @ 27 ± 2°C

Sr No	Test Parameter	Product Specification	Test method
1	Appearance and Color	Powder and grey in color	Visual
2	Sand Size (microns)	less than 600	IS 383 *2018
3	Dry Density (Kg/m ³)	1650 - 1750	In - house
4	Wet Density (Kg/m ³)	1850 - 1950	In - house
5	Water Demand (Litre / 40 kg Bag)	9.6 - 11.2 Litre or 24 - 28%	
6	Bed / Joint Thickness (mm)	2 to 3	
7	Pot Life (mins)	90 - 120	In House
8	Adjustment Time (mins)	Up to 20	
9	Mixing Time (mins)	3-7	
10	Hard Dry (Hrs)	24	
11	Coverage Area sq. ft. - 4" AAC Block Wall (sq. ft. /40 kg bag)	124 - 140*	As per good practice
12	Coverage Area sq. ft. - 6" AAC Block Wall (sq. ft. /40 kg bag)	88 - 104*	As per good practice
13	Compressive Strength (MPa @ 28 Days)	> 12	EN 1015 - 11
14	Tensile Adhesion Strength (MPa @ 28 Days)	>0.8	EN 1348
15	Splitting Tensile Strength (MPa @ 28 Days)	> 0.5	ASTM C 1660 -09
16	Self-Curing	Yes	

NOTE: The values in the above table are obtained in the standard laboratory conditions.

METHOD OF APPLICATION

STEP 1 - SURFACE PREPARATION:

The substrate must be structurally sound, laitance free, clean and free from dirt, oil, grease, other contaminants and loose particles. Pre-wetting of substrate is essential with saturated surface dry (S.S.D.) condition.

STEP 2 - MIXING:

NUVOCO ZERO M BLOCK JOINTING MORTAR must be mechanically mixed with 8 to 12 litres of clean water using a mechanical mixer or in a clean container using a drill and mixing paddle (< 500 rpm). Mix initially for 3-7 minutes by electric mixer or an appropriate tool to mix homogeneously. Leave material to stand in container until most bubbles have dispersed (minimum 5 minutes). Then remix the material for 15 seconds - the product is now ready for use.

Note: If the substrate is very porous, if the temperature is high and/or the relative humidity low, it is advisable to dampen the surface. Do not leave any standing water.

STEP 3 - APPLICATION PROCEDURE:

Apply a thin, uniform 2 - 3 mm layer of NUVOCO ZERO M BLOCK JOINTING MORTAR on the clean surface of masonry units using proper trowel. The mortar should be spread on horizontal and vertical sides of block in such a way to maintain the bond thickness of 2-3 mm, The inside unit of the masonry unit shall be applied with mortar before the next unit is laid & pressed against it especially in case of bricks. Place the next course of masonry units on evenly jointing mortar bed in proper line & level. Each masonry unit shall be properly bedded and set in position by gently pressing with handle of trowel. Use spirit level and fiber hammer/mallet to remove any air gaps in between blocks for proper jointing and alignment. Clean the excess material, if any immediately. Continue the procedure for the entire masonry work. Do not disturb the blocks /bricks setting for the first 24 hours.

PRECAUTIONS & LIMITATIONS

- Though it contains nontoxic materials but still care should be taken to avoid dust inhalation while mixing and handling.
- People allergic to cement and cement products should take precautions before use, . Do not exceed the recommended water dosage. • Apply only to sound, prepared substrates. • Do not exceed the maximum layer thickness. . Protect freshly applied material from freezing and rain etc.

SAFETY INSTRUCTIONS

- Always use rubber gloves, mask and protective eyewear during application, as exposure may cause itching or irritation.
- In case of contact with skin & eyes wash with plenty of water & seek medical attention. • Keep away from children, food items, and direct sunlight. • Harmful if swallowed; in case of accidental ingestion, seek immediate medical attention. • Dispose of leftover product responsibly as per regulations.

COVERAGE

Thickness	*Coverage Range (Sq. Ft./Kg)
2 mm	5-6
3 mm	3-4
4 mm	2-3

*Coverage (Sq. Ft./Kg) for AAC blocks - 600 × 200 × 150 mm (standard).

(Coverage calculated at standard laboratory conditions. Coverage will vary depending on actual site conditions.)

PACKAGING 40 kg

SHELF LIFE AND STORAGE

The shelf life in the original sealed packing is 6 months from date of production when product is stored under cover & out of direct sunlight. Protect from extremes of temperatures.

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