



INNOVATION | SUSTAINABILITY | EXCELLENCE

NIRMAAHAN

NGPL BlockEx- Block Joining Mortar





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FEATURES	ADVANTAGES	BENEFITS
THIN JOINTS	1.REDUCES OVERALL JOINTING MATERIAL REQUIREMENT	1.COST IS REDUCED
	2.REDUCES STORAGE REQUIREMENT	2.RESULTS IN SAVINGS ON SITE
	3.REDUCED SEEPAGE IN COMPARISON TO CONVENTIONAL METHOD	STORAGE SPACE AND HANDALING
		3.PROTECTS VALUABLE PAINTS WALLS
SEMI-PREMIX	1.ONLY WATER NEEDS TO BE ADDED BEFORE APPLICATION	1.NO NEED TO PROCURE DIFFERENT MATERIALS
	2.EASY APPLICATION	2.NO NEED TO MAINTAIN RATIO OF ENTIRE MIX
		1.SAVES WATER
		2.SAVES TIME
SELF-CURING PROPERTIES	WATER CURING IS NOT REQUIRED AFTER APPLICATION	3.SAVA LABOUR COST
STRENGTH DESIGNED TO	PROVIDES HIGHER COMPRESSIVE AND TENSILE	BETTER WALL STRENGTH AND LONG
SUIT FLY ASH BLOCKS (AERATED AUTOCLAVED)	ADHESION STRENGTH	TERM DURABILITY IS POSSIBLE
HIGHER COVERAGE IN COMPARISON TO CONVENTIONAL MORTAR	1.REDUCES OVERALL MATERIAL REQUIREMENT 2.INCREASED WORK OUTPUT	COST AND TIME SAVINGS
TECHNICAL ASSISTANCE	OUR TECHNICAL REPRESENTATIVES PROVIDE YOU WITH	HIGHER CONSTRUCTION EFFICIENCY
	SERVICES LIKE SAMPLING OF PRODUCTS, DOING SITE	
	AUDITS AND ARE AVAILABLE FOR TECHNICAL ASSISTANCE.	
CONSISTS OF MATERIALS THAT ARE NON-HAZARDOUS	HEALTH SAFETY FOR MASONS	RESULTING IN HYGIENE AND HEALTHY ENVIRONMENT
NO RAKING REQUIRED	RAKING OF THE JOINTS OR "U" GROOVING OF THE JOINTS	SAVES TIME AMD MANPOWER
	ARE NOT REQUIRED BEFORE PLASTERING	



TECHNICAL DATA SHEET

THIN BED MORTAR DATA		
Size mm	JOINTING SURFACE	MORTAR REQUIRED IN Kg/BLOCK
	AREA OF 1 BLOCK (Sq.Ft)	(170 Sq.Ft./40Kg.)
650 X 250 X 75	1.45	0.34
650 X 250 X 100	1.94	0.46
650 X 250 X 125	2.42	0.57
650 X 250 X 150	2.91	0.68
650 X 250 X 200	3.88	0.91
650 X 250 X 225	4.36	1.03
650 X 250 X 250	4.84	1.14
650 X 250 X 300	5.81	1.37
650 X 200 X 100	1.83	0.43
650 X 200 X 150	2.74	0.65
650 X 200 X 225	4.12	0.97
600 X 200 X 100	1.72	0.41
600 X 200 X 150	2.58	0.61
600 X 200 X 225	3.88	0.91

Suitable areas

- Internal & external.
- Residential, commercial & industrial buildings.

Suitable surfaces

- New or old fully cured absorbent plasters.
- New or old fully cured absorbent concrete, IPS or PCC floors which are sound and stable.

Suitable covering material

- AAC (Autoclaved Aerated Concrete)
- Concrete block, Hollow concrete blocks.
- Absorbent machine cut bricks, fly ash bricks etc

Mixing:

- **NGPL BlockEx- Block Joining Mortar** 25Kg /40 kg. Bag of powder with approx. 8Lt / 12 lt. of clean water.
Use electric low speed stirrer to have desire results. Manual mixing can compromise performance of adhesive.
- Adjust the water quantity as per ambient temperature. The final mix must be workable paste.

How to apply:

- Moist the surface of block with water before applying the adhesive. Once surface is moist, spread the adhesive onto the surface of block with help of notched trowel in thickness of 2-3 mm. or as needed.
- Once adhesive is applied, fix the blocks onto adhesive before skin formation and press firmly. In case adhesive dry too fast due to surface absorption of block and windy surround, then apply at a time in small areas of block surface.
- Leave appropriate space between concrete wall and blocks to accommodate surface movement. Fill the joint with correct sealant or flexible material.
- Once adhesive is fully cured, apply the plaster or any other covering.



Product & Working Data

Product appearance	: Grey colour powder
Packing	: 25Kg / 40 Kg. moisture proof bag
Shelf life	: 12 months from the date of manufacturing.
Water ratio	: Approx. 300 MI /Kg
Pot life	: > 2 hours
Thickness	: Minimum 2-3 mm.
Open Time	: 20 minutes
Adjustability	: 20 minutes
Initial setting	: 6 to 8 hours.
Final setting	: 24 hours.
Grouting of blocks	: After 24 hours.
Plaster or other covering	: After two weeks.
Full strength of adhesive	: At 21 days.
Working temperature	: + 5° C. to + 35° C.

*(Data @ 27° C. & 50% humidity)

Technical Performances

In compliance with EN norms 12004

Tensile adhesion (porous surface) : 1.0 N / mm² : As per EN 1348
Tensile Adhesion after heat cycle : 0.55 N / mm² : As per EN 1348
Tensile Adhesion after water immersion : 0.66 N / mm² : As per EN 1348
Tensile Adhesion after Freeze- thaw cycle : 0.52 N / mm² : As per EN 1348

*(Final results @ 28 days. 23° C. & 50% humidity)

In compliance with IS 15477-2019: for Type 1 Adhesive

Tensile Adhesion (Dry condition) : ≥ 1.0 N/mm²
Shear Adhesion (Dry Condition) : ≥ 1.2 N/mm²

*(Final results @ 28 days. 27° C. & 65% humidity)

- Final resistance to temperature after 28 days or full cure: - 30 to + 80° C.
- The final results may vary based on temperature and humidity. Freeze thaw cycles are having different curing cycles.



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NOTES:-

- 1) ALL RESULTS ARE ROUNDED OFF TO 2 DECIMAL PLACES
- 2) THE QUANTITY ASCERTAINED IS WITHOUT THE CONSIDERATION OF WASTAGE AND COPING.
- 3) THICKNESS OF MORTAR CONSIDERED IS APPROX. 2.5 MM IN THE ABOVE CALCULATION.
- 4) CALCULATION OF ONLY STANDARD SIZES ARE GIVEN, FOR THE REST OF THE SIZES KINDLY VIEW OUR WEBSITE OR CONTACT OUR COMPANY EXECUTIVE.
- 5) THE RESULT OF 170 SQUARE FEET PER 40 KG OF MORTAR WAS DERIVED AFTER A DEMO WALL BUILT AT OUR LABORATORY.



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