



MAGNICRETE
GERMAN TECHNOLOGY - INDIAN PRIDE

MAGNIJOINT

THIN JOINT MORTAR FOR BLOCKS

stronger, lighter, faster !



READY TO USE
JUST ADD WATER

- Laying and jointing of AAC blocks, concrete & cement blocks
- Easy to mix and fast to apply
- Provides water impermeable joints
- 3mm joint thickness leads to faster and economical application
- Extremely high tensile adhesion strength
- Saves time and cost
- Self curing
- Easy To Plaster
- Ensure elegant finish with quality construction

MAGNICRETE FOR MAGNIFICENT BUILDINGS



MAGNIJOINT

THIN JOINT MORTAR FOR BLOCKS

“MAGNICRETE - MAGNIJOINT” is a ready to use, polymer modified high strength thin jointing mortar for laying AAC blocks, fly ash bricks, concrete blocks etc. It is the preferred choice for building masonry units where the joint thickness is reduced from 12~18 mm in conventional application and optimized to 3 mm, improving the quality of construction many folds.

Thin-Joint blockwork enables wall masonry to be built very quickly without having to wait the conventional 24 hours for the mortar to set before further loading can be applied. “MAGNIJOINT” starts to set within minutes of application. This enables blockwork to be built quickly.

“MAGNIJOINT” is easily mixed on site by adding the appropriate quantity of water. It is applied with a proprietary scoop or notch trowel, which will create a consistent joint thickness of 3 mm.

“MAGNIJOINT” application is best suited for Aerated Autoclave blocks (AAC Blocks), Cement mortar blocks, Bricks, Cellular/ Solid concrete blocks and Fly ash bricks. For clay bricks thick bed jointing mortar is available on demand.

Features and Benefits:

- “MAGNIJOINT” is Pre-mixed and ready to use. Only water is to be added at site.
- Economical. Ease of mix and much faster to apply and thus Eliminates lengthy and cumbersome inaccurate process of site mixing.
- Transport and storage of all individual materials in Site Mixing is avoided.
- Thin layer application results in structure being compact.
- No water curing is required after application
- Highly water resistant and hence chances of water percolation is negligible
- High Bond Strength: Special polymers imparts high adhesion strength increasing the durability of masonry.
- No Shrinkage Cracks: Water retention properties reduces the shrinkage cracks.
- High Thermal Insulation: Thin joint prevent heat transfer through walls.
- Ease of mixing and application of the mortar.
- Higher tensile strength between masonry blocks.
- Negligible Wastage & Higher Coverage.
- 3 mm joint thickness leads to faster and economical application.
- Eco friendly product. Raw materials are processed, reducing the chances of Efflorescence.

About Magnicrete Products

Products under MAGNICRETE brand are produced in a State-of-the-Art Plant at Rajasthan in India with German Technology. It is one of its kind, most modern Dry Mix Plant of latest technology in the world with a capacity of more than 160K MT per annum.

The plant is fully automatic including the raw material handling system, mixing of various raw materials to the finished products loading system and truck loaders. Fully computerised without any or least manual intervention. The plant is equipped with very high efficiency mixers and choppers for thorough and uniform mixing of ingredients with high precision, even with dosages as low as 0.01%.

The plant operation runs automatically through most advanced Supervisory control and data acquisition (SCADA) System, through PLC in a close loop system of software and hardware elements. This allows to control processes, monitor and process real time data through directly interacting with equipments and devices like sensors, screws, motors etc., which effectively reduces the chances of manual operating errors and enable to produce world class quality Dry Mix products with precision and consistent quality for Magnificent buildings.

The plant is supported by in-house research and development centre of international standard, fully equipped with excellent laboratory facilities including prototype German dry mix plant, for all critical and important quality tests.

It is run and managed by well experienced senior professionals having proven work experience in the industry.

Method of Application

Surface Preparation

- The base surface should be properly cured prior to application of jointing mortar.
- The surface must be cleaned thoroughly, with no loose particles or dust.
- The surface must be structurally sound, clean and free from dirt, oil, grease, efflorescence & any other contaminant which could impair the natural bond.
- Surface defects such as cracks, holes or voids should be repaired prior to application.
- It is very important to Pre-Wet the Blocks/Bricks before the same is taken up for joining application with "MAGNIJOINT" for best results and durability

Mixing

- It is very important that "MAGNIJOINT" is to be mixed with water properly and thoroughly before use.
- It is advisable to use mechanical stirrer for uniform and thorough mixing to save time, labour and for maximum workability.
- Take a clean vessel/bucket which does not have any hole or cut and add some water in the empty vessel to ensure no powder gets stuck on the bottom of the vessel and put required quantity of "MAGNIJOINT" in it.
- Mixing Ratio - approximately 25 - 30% of clean potable water is required to be mixed of the weight of powder depending upon the thickness of the product to be applied. Water is to be incrementally added in stages to get a smooth, uniform, workable mix. Allow ample of time for initial mixing.
- Ensure that no powder is left unmixed at the bottom of the vessel. The jointing mortar is now ready for application

Method of Application

- Layout the wall where "MAGNIJOINT" is to be used and mark the openings like door, windows or any architectural appurtenances.
- Apply a 3-4 mm thick layer of "MAGNIJOINT" on the clean and levelled substrate using steel trowel and notch the surface using 3-5 mm notch trowel.
- It is highly recommended to pre-wet the blocks before application of the product.
- Place masonry units on the evenly laid jointing mortar bed in proper line & level. Each masonry unit should be properly bedded and set in position by gently pressing with rubber mallet/ hammer.
- After placing the first unit, apply "MAGNIJOINT" of same thickness on both sides of the unit keeping continuous check for line & level.
- Inside face of masonry unit should be buttered with the mortar before the next unit is laid and pressed against it especially in case of blocks.
- Clean the excess material if any immediately. Continue the procedure for the entire masonry work.
- Place next course of masonry units on the evenly laid jointing mortar bed in proper line & level. Each masonry unit should be properly bedded and set in position by gently pressing with hand or trowel.
- Inside face of masonry unit should be buttered with mortar before the next unit is laid and pressed against it especially in case of blocks.
- Plumb should be checked regularly to ensure vertical correctness of the masonry unit.
- Clean the excess material if any immediately. Continue the procedure for the entire masonry work.
- Protect the mixed material from direct sunlight to avoid rapid moisture loss and prolong pot life.

Coverage

- Under normal condition the coverage of "MAGNIJOINT" is approx. 105 - 120 Sq. Ft. for 100 mm block with average thickness of 3 mm for a bag of 25 Kgs. (Please refer to table overleaf for more details)
- The coverage area however will depend upon the quality of the substrate, dimensional accuracy of the blocks and thickness of the material used.
- For best results proper tools for mixing and application is desirable which will result in higher coverage, faster work and higher durability.

Precautions during usage

- Though it contains non-toxic materials but still care should be taken to avoid dust inhalation while mixing and handling. In case of contact with eyes or mouth, wash with plenty of clean water.
- Keep it in a dry place and out of reach of children.
- Persons who are allergic to cement should take proper precautions before use.

Tentative Coverage of Blocks

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Block Size (mm)			Wall Area Covered
Length	Height	Width	(Sq. Ft./ 25 Kg Bag)
600	200	100	105-120
600	200	125	90-105
600	200	150	75-90
600	200	200	55-65
600	200	230	45-55
600	200	300	40-50

Technical Specification for Jointing Mortar

Parameters	Typical Values
Colour	Grey Powder
Bulk density Kg/l	1.35~1.4
Water powder ratio# (%)	25~30
Fresh wet density Kg/l	1.8~1.9
Compressive Strength (MPa) 07 days	6~8
28 days	9~11
Pull Out Tensile Adhesion (N/mm ²)	
Strength @ 28 days	1.5
Flexural Strength(N/mm ²) @28 days 2	2.0
Splitting Tensile Strength(N/mm ²) @28 Days	1.0
Pot Life(hours)	2
Packaging	"MAGNIJOINT" is available in 25 Kg BOPP laminated Bags.

Storage : The Shelf Life of the MAGNIJOINT is six months from the date of manufacture for unopened bag, stored in covered shed away from the source of moisture.

*Specifications are subject to change without notification in our pursuit of product improvement. Kindly contact our Technical Personnel for any clarification. Results mentioned in the above table are Typical and under standard conditions stipulated as per the codes. # Temperature: 27°C; Relative Humidity: 65±5°C unless and until mentioned otherwise

OTHER MAGNICRETE PRODUCTS



MAGNIPLAST
SUPERIOR WATER
RESISTANT
PLASTER



MAGNIGROUT
SUPER STRENGTH
GROUT



MAGNISEAL
SUPERIOR
WATERPROOFING
COATING



MAGNIBOND
POLYMER
MODIFIED
MORTAR



MAGNISILK
PUTTY FOR
INTERIOR &
EXTERIOR WALLS



MAGNIFIX
GREY SUPER TILE
ADHESIVE



MAGNIFIX
WHITE SUPER TILE
ADHESIVE



MAGNICOOOL
HEAT REDUCTION
WATERPROOF
COATING



MAGNISHINE
HEAT REDUCTION
WATERPROOF
COATING



MAGNICRETE
GERMAN TECHNOLOGY - INDIAN PRIDE



STORE DRY



DONT USE
HOOKS



DONT INHALE
USE MASK



USE SAFETY
WEAR

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