



# MAGNICRETE

GERMAN TECHNOLOGY - INDIAN PRIDE

# MAGNIPLAST

SUPERIOR WATER RESISTANT PLASTER

stronger, quicker, smoother !



**READY TO USE  
JUST ADD WATER**

- Water resistant, smooth & even plaster surface
- Lesser curing
- Lesser wastage and time saving
- Consistency in quality of aggregates
- Silt free, efflorescence due to presence of silt in sand eliminated
- Higher tensile adhesion strength
- Higher coverage of subsequent application
- Ensure quality construction with standard mix
- Enable a clean construction site

**MAGNICRETE FOR MAGNIFICENT BUILDINGS**



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# MAGNIPLAST

## SUPERIOR WATER RESISTANT PLASTER

“MAGNICRETE - MAGNIPLAST” is high quality cement based water resistant ready to use plaster. This plaster is ideal for interior and exterior walls and can be rendered on any brick walls, block walls, stonewalls and concrete surfaces. “MAGNIPLAST” is designed with unique reactive best in class polymers and graded sand for new work, patch works and repairs. “MAGNIPLAST” is optimized for mechanized as well as manual application. “MAGNIPLAST” meets the requirements of ASTM 926, EN 998-1, GP-CS IV, BS 8481 (2006) and IS 1661 (1972)

- “MAGNIPLAST” is hassle free convenient product which replaces conventional plastering system and provides higher required strength, better appearance, better compaction and adhesion to substrates. “MAGNIPLAST” Is a unique formulation with special additives and polymers that makes the plaster water resistant, shrinkage free which, enhances durability and increased workability. “MAGNIPLAST” requires only one third of the water curing as compared to cement sand mortar mixed at site.
- Stringent quality tests ensure that the right raw materials are mixed in the right proportion for optimum results reducing chances of manual errors at site
- “MAGNIPLAST” is easy to apply (and helps in eliminating the much unwanted mess at the worksite).
- Normally the sand is contaminated with silt causing efflorescence and thus affecting the quality of the plaster. In “MAGNIPLAST” the sand is silt free, finely graded and hence the general sand related problems are eliminated.

### 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 substrate should be clean and free of loose particle, dust, grease and foreign material that may affect adhesion. In case of dry and absorbent substrates, the surface should be moistened with potable water.
- Concrete, Screeds, block work should be sufficiently cured to avoid shrinkage cracks. Any structural crack must be treated before commencement of the plastering work. At places where two different types of masonry substrates meet, the joints must be reinforced with a suitable wire mesh.
- In case of dry and absorbent substrates, the surface should be moistened with potable water. The substrate needs to be in SSD (Saturated Surface Dry) condition during plastering.
- All the necessary precautions and codal provisions should be followed related to the stability of walls during masonry stage in order to avoid structural cracks at a later date.

## MIXING

- Prepare the Plaster by thoroughly mixing with 17 - 19% of water.
- Mechanical mixers/ electrical stirrer are highly recommended for proper and thorough mixing for optimum results.
- Initially, take 15 - 20% of total water requirement and add "MAGNIPLAST" so that the material does not stick to the pan. Gradually, add the rest of the water while mixing the material to prepare a lump free paste.
- Use clean potable water to prepare the mix.
- A mixing time of about 5 - 10 Minutes is recommended depending upon the speed of the mixing equipment. Once thoroughly mixed, allow to stand for 5 minutes and mix again before applying.
- No further water should be added to the mix. Hard and set plaster material should not be remixed. The water & MAGNIPLAST ratio is very important for good application and quality plaster.

## APPLICATION

- The mix should be placed within 1 hour of preparation, depending upon the environmental conditions and hence it is recommended to mix appropriate quantity which can be finished.
- The application of "MAGNIPLAST" can be done manually or through a spray machine effectively.
- Load the material with the help of a plastering trowel/spatula to build a thickness of up to 12 - 15 mm on pre-wetted masonry unit.
- Allow the plaster to dry to an extent where it can be smothered with the help of a wooden or an aluminium float.
- Patch the spots of depression to bring the surface to level and refloat the plaster to make the entire area uniform.
- MAGNIPLAST" can be applied in the thickness up to 12 - 15 mm per coat.
- Plumb should be checked regularly to ensure vertical correctness of the masonry unit.
- Remove the excess material immediately. Follow this process during the entire process of masonry work.
- For application by machine, adjust the consistency as appropriate within the given range of water-powder ratio to allow the material to pass through the spray hose/ nozzle.
- The thickness should be just enough to prevent sagging of the sprayed material.
- Subsequent coats can be applied if needed, to increase the thickness of the initial coat once dry.
- "MAGNIPLAST" should be protected from direct sunlight, wind and rain during application.
- On smooth and dense concrete surface, it is recommended to make the surface rough with comb and apply a thin dash coat of "MAGNIPLAST" to provide a better key for the plaster coat.

## CURING

- No curing is needed within first 24 hours or application in normal weather conditions. Once the plaster is dry, it should be cured with water spray once/twice a day for 2 - 3 days. However, during peak summer under direct sunlight curing with water spray needs to be done for 5 - 7 days for proper hydration.

**Note:**

1) The procedure mentioned in the leaflet is for ideal conditions. It is advisable to seek technical guidance for different site conditions. The coverage varies with site and surface condition. 2) Generally the cause of efflorescence on the brick masonry is the quality of bricks, sand and water. If the effects of efflorescence on the brick masonry seem to be very high then proper care should be taken to control the efflorescence. The efflorescence problem on brick masonry if exists impairs the bonding of the MAGNIPLAST as it happens in normal plasters also.

## COVERAGE

- Coverage is based on the smoothness and evenness of the substrate. Typically, coverage of "MAGNIPLAST" when used with the proper water for 10 - 12 mm thick application is 0.19 - 0.22 kg per sq.ft/mm on the masonry surface. However, coverage will depend on the application and surface conditions.

## PRECAUTIONS DURING USAGE

- Selection of masonry units is very critical as poor quality bricks may lead to efflorescence which will leach out of the plaster. Hard/ Salty water is not recommended to be mixed with "MAGNIPLAST" as it may deteriorate the performance of plaster.
- Though "MAGNIPLAST" contains no toxic material, care should be taken to avoid dust inhalation while mixing and handling. In case of contact with eyes or face, wash with plenty of clean water. Persons who are allergic to cement should take proper precautions before use.

## SHELF LIFE/ STORAGE

- MAGNIPLAST" will remain usable for period of SIX months from date of manufacture, when stored as per the standard recommended conditions.
- Store in a cool and dry place. Ensure that the bags do not burst or tear while handling. Hooks should not be used during handling. There should be a gap of 0.5 metre between the walls and the stacks.

## RECOMMENDATIONS

- To achieve a smoother finish and best result of painting, it is highly recommended to apply 2 coats of "MAGNICRETE MAGNISILK"

## TECHNICAL SPECIFICATIONS

Properties	Specification
Appearance	Greyish Granular Powder
Binder	Grey Cement
Aggregate	Processed and Graded Sand
Additives	Water Soluble additives for better bonding, higher tensile adhesion and durability
Bulk Density (Kg/L)	1.3~1.4
Fresh wet density (Kg/L)	1.9~2.0
Water powder ratio (%)	17~19%
Pot Life (Hours)	90 minutes
Coverage (Kg/Sq.Ft./mm)	0.19~0.22*
Compressive Strength (Mpa)	
@ 7 days	5~6
@ 28 days	8~9
Tensile Adhesion Strength (N/mm <sup>2</sup> ), on concrete block as per EN 1348	
@ 7 Days	>0.4
Flexural Strength (N/mm <sup>2</sup> ) as per EN 12808 - 3 @ 7 Days	>1.5
Packaging	MAGNIPLAST is available in 40 Kg BOPP laminated Bags.

\*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



STORE DRY



DONT USE HOOKS



DONT INHALE USE MASK



USE SAFETY WEAR

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