



MAGNICRETE

GERMAN TECHNOLOGY - INDIAN PRIDE



MAGNISEAL

SUPERIOR WATER PROOFING COATING

water & moisture barrier



**READY TO USE
JUST ADD WATER**

- Terrace water proofing
- Coating on Sloping Roofs and Chajjas (sunshade)
- Plastered masonry, external walls
- Overhead and underground water tanks
- Swimming pools
- Toilets & bathrooms
- Basements
- Tunnels, canals & dams etc.

MAGNICRETE FOR MAGNIFICENT BUILDINGS



“MAGNICRETE-MAGNISEAL” is Cement based, Single component, Polymer modified, Flexible, Elastomeric Waterproof Coating - for Concrete and Masonry surfaces. “MAGNISEAL” is available as a dry powder, and is to be mixed with water before use. It is grey in color and easily applied by brush or sprayed by spray machines.

Features:

- Heavy duty waterproof coating system on new and existing surfaces.
- Forms flexible and washable membrane soon after application
- Highly effective for positive & negative sides of waterproofing
- Water Impermeability against Hydrostatic pressure: 5-7 Bar
- Negative impermeability: 1.5 Bar
- Effectively seals all existing cracks in the surface. Crack Bridging Capability : 0.5mm
- Good resistance against UV, Infrared Rays
- Though “MAGNISEAL” is highly water impermeable, it is breathable thus enhancing durability of concrete and mortar surfaces.
- Strong adhesion with all Cementitious surfaces including China chips
- Non-flammable and Non-Toxic, hence suitable for all types of water retaining structures.
- Ease of handling, mixing & application.
- Freedom from fungus/ moss, improved life of finishing coats and aesthetics.

Benefits:

- “MAGNISEAL” being Single component, does not require mixing of two or more components at site, thus ensuring accuracy and proper quality. Only water is to be added before use and mixing can be done with stirrer, resulting in considerable saving of time and labour.
- Ease of application – Being Brush applied the product is Do-It-Yourself (DIY) type.
- Dual benefits of water proofing and crack bridging.
- No additional dead load on the structure after application.
- Flexible coating and hence can be used in niche, corners (geometries) and vertical surfaces.
- The surface is ready for any subsequent application within 48 Hrs.
- Normally, no curing is required after application. However, if the application is subjected to direct sunlight in summer it is advisable to cover the surface and sprinkle water above it after one hour of application.

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

- "MAGNISEAL" is typically applied in two coats. It is important that the following application practices are adhered to for better results:
 - a) Clean the surface thoroughly to ensure that all loosely adhered material is removed & wash the surface with clean potable water so that no dust remains on the surface. Care should be taken to see that there is no water pooling and that all excess water is removed before application.
 - b) There should not be any oil, grease, fungus etc on the surface before application since it may hinder the adhesion of the product to the surface. Allow the surface to dry properly prior to application of the product.

MIXING

- It is very important that proper and thorough mixing of the "MAGNISEAL" is done with water before use. It is advisable to use mechanical stirrer for uniform and thorough mixing and to save time and labor.
- 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 "MAGNISEAL" in it.
- Mixing Ratio - Mixing water shall be 40 - 45% of the weight of powder.
- Mix both thoroughly to get uniform paste. Ensure that no powder is left unmixed at the bottom of the vessel. The slurry is now ready for application.
- It is desirable to use the material within 2 hours.
- For bigger jobs, it is advisable to use mechanical stirrer and spray machines. Proper care shall be taken at the time of mixing and spraying to ensure better result.

APPLICATION

- "MAGNISEAL" can be applied to the surface manually by brush. After application of 1st coat, a gap of minimum 2 hours before the subsequent coat is applied and the second coat must be applied perpendicular direction to the first coat on the surface.
- "MAGNISEAL" can be applied by spray machine also. For large areas use of spray machine is recommended for better speed and economy.
- Care should be taken to avoid application under direct sunlight. The appropriate application time for the product is either early morning or late evening. This is to ensure that the water which is used for mixing does not evaporate fast and the product is able to develop the design properties.
- In case of U/G tanks, O/H tanks or basement, it is quite possible that drying time may increase more than 2 hours. In such cases, ensure that first coat is dried properly before the application of the second coat.
- It is advised to use brush with soft bristles for application and the brush should be cleaned properly after the application.

COVERAGE

- The coverage of the product depends upon the surface condition, its roughness and absorption. In normal condition, the coverage of "MAGNISEAL" is 10 - 12 Sq. ft. for two coats per Kg.

PRECAUTION

- Proper slopes and outlets to drain out roof water are must and ponding of the rain water should be avoided in terraces.
- Mix just enough quantity that can be used within 2 hours so as to avoid wastage of the product.
- Additional water should not be added to already mixed material.
- In order to get best results, it is recommended not to use "MAGNISEAL" in direct sunlight to avoid unnatural evaporation which may lead to cracks.
- The coating should not be done in thick layer. If required; number of coats may be increased to achieve higher thickness.

STORAGE & SHELF LIFE

- Store in a cool and dry place. Ensure that the bags do not burst or tear while handling. There should be a gap of 0.5 m from the walls to the stacks.
- "MAGNISEAL" Shelf life is 6 Months from date of manufacture when stored as per standard recommended conditions..

TECHNICAL SPECIFICATIONS as per bs/ astm

PROPERTIES	VALUES
Appearance	Free Flowing Powder
Colour	Grey
Water Demand (%)	40% - 45%
Pre-Wetting of Surface	Yes
Consistency	Good
Brush ability	Good
Touch Dry	30 – 40 minutes
Hard Dry	24 Hours
Pot life	2 Hour
Complete curing	28 Days
Chalking (Qualitative)	None
Wet – Scuff Resistance (Qualitative)	Very Good
Curing	Self Curing at Std. lab Conditions
Thickness	1.4 mm to 1.6 mm (2 coats)

PROPERTIES	VALUES
Tensile Adhesion (N/mm ²) As Per (EN 1348, DIN 18555-6, EN 14891)	
After 10 days std. conditions	1.55
After 28 days std. conditions	1.75
Water Absorption by Karsten Tube (30 minutes)	0.05ml
Crack – over-bridging ability	0.5mm
Water impermeability Test	>5.0 Bar
Packaging	"MAGNISEAL" is available in 25 Kg BOPP laminated packaging

1. At Standard Condition: 27+2°C, 50 + 5% Relative Humidity for 28 Days
2. Water immersion: 7 Days at 27 + 2 °C, 50 + 5% Relative Humidity + 21 Days under water immersion
3. Heat Ageing: 14 Days at 27 + 2°C, 50 + 5% Relative Humidity + 14 Days at 70°C + 1 Day 27+2°C, 50 + 5% Relative Humidity

*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



THIN JOINT MORTAR



SUPERIOR WATER RESISTANT PLASTER



SUPER STRENGTH GROUT



POLYMER MODIFIED MORTAR



PUTTY FOR INTERIOR & EXTERIOR WALLS



GREY SUPER TILE ADHESIVE



WHITE SUPER TILE ADHESIVE



HEAT REDUCTION WATERPROOF COATING



EXTERIOR PAINT



MAGNICRETE
GERMAN TECHNOLOGY - INDIAN PRIDE



STORE DRY



DONT USE HOOKS



DONT INHALE USE MASK



USE SAFETY WEAR

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