

Mahaseal[®] 2K Cementitious Elastomeric Waterproofing Coating

Description

Mahaseal 2K is an acrylic cementitious, polymer modified flexible, waterproofing & protective coating composed of best quality portland cement, properly selected & graded aggregates, additives & acrylic emulsion polymer as a binder. It offers excellent resistance to both positive and negative water pressures.

Features / Advantages

- Flexible coating
- It is an excellent waterproofing membrane.
- Excellent adhesion to concrete substrate.
- Bonds to both porous and non-porous surface.
- Breathable coating.
- It is non-toxic. Suitable for drinking water use.
- It is chloride free hence does not affect RCC.
- Anti-carbonation property.
- It is resistant to atmospheric carbon dioxide and chloride ion diffusion.

Areas of applications

- Waterproofing membrane for water retaining structures
- Excellent waterproofing membrane for balconies, roofs, chhajjas, canopies, cellars, terraces, bathroom, sunken areas and walls for artificial lakes, swimming pools, water tanks, sewage effluent tanks etc.
- For foundation and kitchen waterproofing.
- Can be applied over internal damp walls and concrete surfaces due to its excellent bonding.

Technical Information

Sr.No.	PROPERTIES	SPECIFICATION
1	Nature	2 component system
2	Part I	Cement grey powder
3	Part II	White liquid polymer
4	Mix Ratio by weight	Part I : Part II (1:2)
5	Pot Life at 30°C	Approx. 1 hr. 45 minutes
6	Adhesion to concrete	Excellent
7	Tensile Strength	>1 N/mm ²
8	Toxicity	Non toxic
9	Crack bridging	Approx. 1mm
10	Elongation (%)	>100

Methods of Application

Surface

The surface of application must be thoroughly prepared by mechanical means, to remove all loose particles, laitance, etc.

Oil and grease, if any, must be de-greased with suitable solvents. It then must be washed off with jet of water and brought to touch dry state. Any surface undulations, cracks and crevices must be duly filled or repaired with cement sand mortar mixed with latex polymers such as Mahacrete SBR Super.

All vertical up-stands & junctions /corners are provided with 45° fillet with polymer modified mortar (PMM), mixed with Mahacrete SBR Super all around the periphery of the junction.

Substrate must be in a "Saturated Surface Dry" (SSD) condition (damp, without standing water) prior to application

Mixing

Mix part I (Liquid) gradually in part II (Powder) using a mechanical stirrer. Mixing should be done for about 3 minutes till homogenous and lumps free slurry is achieved.

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Application

- The surface of application must be pre-wetted thoroughly with water & brought to a touch dry state. Apply first coat application and lay 50gsm glass fibre mesh over the angle fillet when the first coat is still wet. After 6 to 8 hrs of first coat, apply second coat in the perpendicular direction.
- Complete the application and leave to air cure for 3-5 days. A moist hessian cloth can be kept over the coated surface to protect it from the effect of direct sunlight, in case of bathrooms and internal areas, leave the coating without water curing for 3-5 days.
- In new bathrooms, typically, **Mahaseal 2K** must be applied all over the sunken slab portion and upwards over the masonry walls up to a height of 6-7 feet, i.e. over the splash zone of shower, etc. to ensure complete waterproofing.
- For vertical walls in bathroom, Apply 2 coats of **Mahaseal 2K** on all over or shower area, sprinkle the quartz sand while the second coat is still wet. This will provide adhesion property for subsequent tile adhesive materials.

Curing

Cure application for 7 days @ 30°C or 14 days @ 20°C

Precautions & Limitations

- Do not apply when the ambient temperature is below -10°C or above +45°C.
- Do not apply during rains.
- Adhesion property may get affected over poor quality putty and very smooth surfaces.
- When applying on a concrete surface make sure the concrete is completely cured.
- For performing any kind of pond tests in case of water proofing kindly allow the membrane to be cured for minimum 2 to 3 days.
- In single coat application the consumption should not exceed 1kg/m²



Packing

15kg & 30kg packs



Storage and Shelf life

- It should be stored in dry conditions. Protect from rain, moisture & frost.
- Shelf life is 12 months from the date of manufacture.



Consumption

1.5 to 2kg/m² on terraces, balconies etc. & 2 to 2.5kg/m² Swimming pools, water tanks etc.



Cleaning of Tools & Equipments

Mahaseal 2K systems should be removed from the tools at the earliest before it hardens, by cleaning with water.

Ecology, Health and Safety

Health & Safety instructions, all chemicals should not come in contact with skin and eyes or be swallowed. Protective gloves and goggles should be worn.

If contact with skin occurs, wash well with soap and water.

Eye contamination should be washed thoroughly with clean water and medical advice sought. If swallowed seek medical attention immediately. Do not induce vomiting.

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Disclaimer

The technical data contained herein is based on our present knowledge and experience and we cannot be held liable for any errors, inaccuracies, omissions or editorial failings that result from technological changes or research between the date of issue of this document and the date the product is acquired. Before using the product, the user should carry out any necessary tests in order to ensure that the product is suitable for the intended application. Moreover, all users should contact the seller or the manufacturer of the product for additional technical information concerning its use if they think that the information in their possession needs to be clarified in any way, whether for normal use or a specific application of our product.

Our guarantee applies within the context of the statutory regulations and provisions in force, current professional standards and in accordance with the stipulations set out in our general sales conditions.

The information detailed in the present technical data sheet is given by way of indication and is not exhaustive. The same applies to any information provided verbally by telephone to any prospective or existing customer.

Mahafix
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