

Rhino 2K

Two Component, Flexible Cementitious Elastomeric Waterproofing Coating

Description

Rhino 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
- 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

Typical application

- Waterproofing membrane for water retaining structures
- Excellent waterproof coating for sunken area, balconies, cellars, terraces, bathrooms, walls for artificial lakes etc.
- Waterproofing in swimming pools, water tanks, sewage effluent tanks etc.
- Ideal as a coating for waterproofing of roofs, chhajjas, canopies, etc..
- Can be applied over internal damp walls and concrete surfaces due to its excellent bonding.

Technical Information

Sr.No.	Properties	Specification/Std	Results
1	Appearance Part I	Milky white Liquid	Milky white Liquid
2	Appearance Part II	Grey Powder	Grey Powder
3	Weight per liter part I@ 30°C	IS 101/1964	1.02 ± 0.020 gm/cc
4	Elongation After 7 days at RT	ASTM D-412	≥ 108%
5	Tensile Strength	ASTM D-412	1.1 N/mm ²
6	Pull Of Adhesion	ASTM D 4541	2.1 N/mm ²
7	Crack bridging	ASTM C 836	1 mm
8	Water permeability	DIN 1048 Part-5 1991	Passes
9	Toxicity		Non-Toxic
10	Mixing ratio Part I :Part II		1 : 2 by weight
11	Mixed density		1.45 ± 0.050 gm/cc
12	Pot life@ 30°C	IS 101/1964	> 90 minutes
13	Surface touch dry time@ 30°C		1 hour

Methods of Application

Surface Preparation

All surfaces must be smooth, sound and free from debris, loose or flaking material and areas of standing water. Surfaces must be free from contamination such as oil, grease, dust, loose particles and organic growth. Concrete surfaces must be fully cured, laitance free and free from any traces of shuttering, release oils and curing compounds.

All surfaces should be grit blasted to remove all foreign matters, and provide a suitable key for Rhino 2K application.

Mixing

The powder part to be added in liquid part and mixed thoroughly by slow speed stirrer until a uniform consistency is obtained, taking particular care to scrape the sides and bottom of the container. It is recommended that mechanical mixing is to be done by using a heavy duty slow speed electric drill/stirrer (300 to 400 RPM) for 3 to 5 minutes. Use the material within the recommended pot life.

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Application

- Apply the mixed material by using a short, stiff bristle brush (120—150mm width).
- Apply Rhino 2K in two coats to achieve 1 to 2 mm thickness, the second coat can be applied after 12 hours or after the previous coating has dried. Average drying time is 4 to 6 hours at normal temperatures.
- For better results use Glass Fiber Reinforcement embedded into 1st coat of Rhino 2K while 1st coat is wet. Apply 2nd coat in the interval of 10 to 12 hrs after application of 1st coat.
- For normal applications Rhino 2K should be applied at a minimum thickness of 1 to 2 mm. In areas subjected to heavy hydrostatic pressure minimum coating thickness 2 to 3 mm is recommended with screed.
- Application of Rhino 2K has to be followed by a plaster or screed application especially when it is exposed to open traffic on roofs. Sprinkle coarse sand on wet surface of final coating for better adhesion.
- If substrate is more porous and subjected to more movements then DFT of Rhino 2K may be increased layer to layer (1mm to 3mm).
- Curing the coating 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 +35°C.
- Do not apply during rains.
- Adhesion property may get affected over poor quality putty and very smooth surfaces.
- For performing any kind of pond tests the membrane to be cured for minimum 7 days.



Packing

15 kg, 30 Kg
& 60 kg



Storage and Shelf life

Storage:

Store in a cool dry place under shed away from heat. Shelf life is One year in original unopened conditions.



Consumption

1.4 - 1.5 kg/m² in 2 coats for 1mm thickness.

The coverage figures may vary due to wastage factors & depend on the porosity of substrates



Cleaning of Tools & Equipments

Tools and equipment should be cleaned with water immediately after use.

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.

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