

RAK Proof

High Elastomeric Waterproofing Membrane

Product description

RAK Proof is composed of water based synthetic polymer binder. It is a thixotropic paste, easily applicable on horizontal and vertical surfaces. Once dried, it forms an elastic, continuous, waterproofing membrane that is resistant against thermal changes, ultraviolet rays, and diluted acid solutions. RAK Proof adheres perfectly to a variety of supports as bituminous sheaths, concrete, asbestos, cement, gypsum and cement boards, wood, metallic surfaces, etc. It can be used as a waterproofing and flexible protective layer below ceramic coverings in showers and bathrooms.

Features & benefits

- Easy and quick application
- Excellent elasticity.
- Excellent substrate bonding.
- Effective on damaged surfaces.
- High tensile strength
- Excellent resistance to UV
- Tiles can be glued directly over RAK PROOF using suitable tile adhesive. Excellent resistant to waterborne salts, dilute acids, hydrocarbons, sulfate chloride ions.

Uses

- ❖ RAK Proof can be used as a waterproofing coating on top of concrete, metal, asbestos, plasters, Gypsum boards, wooden chipboards etc.
- ❖ As protective coating for polyurethane sprayed foam against UV effect.
- ❖ Used as a waterproofing system for roofs, terraces, balconies, etc. for both floor and wall application.
- ❖ As waterproofing and protective coating for wet areas not exposed to pressurized water, such as showers, kitchens, bathrooms, residential buildings and hospitals. Also can be used as waterproofing and protection layer on the back of natural stone and marbles etc.
- ❖ Can be applied in maintenance to restore bituminous waterproofing membrane.
- ❖ Applied on top of bituminous membrane as a decorative layer and to protect the membrane from atmospheric effects and against oxidation due to solar effect.

Product data

Color	White or Grey (Other colours are available on request)
Specific Gravity	1.4 Kg/L
Crack bridging ability	1.5 mm
Elongation	>450%
Bond Strength to concrete Open to mechanical stress	≥ 1.0 N/mm ² After minimum 3 days
Resistance to UV	No effect after 1,000 hrs
Resistance to weather	No changes after 2,000 hrs.
Chemical resistance	Resistant to Diluted Acids, Alkali, Sulphate and Chloride ions

RAK Paints LLC, PO Box: 86012, Tel: +971-7-2444036, Fax: +971-7-2446110, Ras Al Khaimah, UAE. www.rakpaints.com

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Water Permeability (Impermeability to water under 5 bars hydrostatic pressure)	No leakage
Full cure	After 7 days
Shelf life	12 Months

* This is the theoretical value. Tested value will vary depending on test methodology, accuracy of equipment used for testing and test conditions.

The provided data is typical for factory produced products, subject to slight variation depending on colour.

Film thickness per coat

Typical recommended specification range

Dry film thickness	0.7 mm
Theoretical spreading rate	1.4 Kg / Sq. Mt.

The Actual Spreading Rate will depend on the actual dry film thickness, the nature of substrate, imperfections, temperature, the application method and the losses in container and application.

Application

Surface preparation

The surface must be sufficiently cured, perfectly clean, solid and free from non-adherent parts, loose cement, traces of form stripping oils, old varnishes, etc. In case of very porous surface it is advisable to apply one coat of RAK Proof diluted with 20% of water as a primer coat on the concrete surface to seal the pores and stabilize the surface. The primer also functions as an adhesion promoter for the top coats.

Metallic surfaces must be brushed or sand blasted in order to remove all corrosion and mill scale.

Application Procedure

RAK Proof is supplied in a 18L pails ready to use at site. Prior application, mix the content of the pail to remove any sediment. it can be applied with a roller, brush or with a spraying machine. For specified method application, contact RAK paints LLC technical department.

Apply the product in two crossed coats in a rate of 1 Ltr/m² (1.4 kg) per coat in order to create a 0.7mm dry film thickness per coat. Before the following coat is applied make sure that the previous coat is completely dry (6 – 8 hours at 30° C & 65% humidity) according to the environmental conditions.

To give additional mechanical strength either at joints or over the whole surface, embed a layer of fiber glass tape or sheet between the two coats.

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As an aesthetic finishing touch, it is possible to spray quartz, slate, sand, etc. onto the last coat while wet. Allow the coating to cure fully for 7 days to achieve its full properties. Protect RAK Proof coating from rain or from pedestrian traffic till it completely cures. Damaged parts can be cleaned and over coated.

Packaging (typical)

RAK Proof 3.6 L and 18 L

Storage

Keep the product in dry and sheltered place at temperature between +5°C to +40°C. In these conditions and in closed original containers.

Shelf life at 30 °C

RAK Proof 12 month(s)

In some markets commercial shelf life can be dictated shorter by local legislation. The above is minimum shelf life, thereafter the paint quality is subject to re-inspection.

Health and safety

During paint application, it is advisable to wear suitable protective guards (PPE). In case of accidental contact with eyes rinse immediately with plenty of water and seek medical advice. In case of inhalation- remove to fresh air, loosen collar and keep patient rested. Get medical treatment. For remove splashes from skin, use soap and water or approved skin cleanser. Flammable material always keeps away from sources of ignition and do not smoke. Ensure sufficient ventilation during application and drying. Do not breathe vapour/spray. Keep container tightly closed and keep out of reach of children. In case of fire - use foam, carbon dioxide or dry chemicals. For more information, refer MSDS.

Disclaimer

The data provided in this sheet is given to the best of our knowledge and based on laboratory testing and practical experience. We cannot guarantee anything but the product since the conditions and methods during application vary. We reserve the right to change the given data without prior notice. The product data sheet supersedes those previously issued.

For more information, contact your local RAK Paints Representative, go to www.rakpaints.com or call +971-7-2444036.