

Rhino Terraseal PU-1K

Single Component Polyurethane Waterproof Coating

Description

Rhino Terraseal PU-1K is flexible single component water based polyurethane and high solids waterproofing liquid membrane. It is tough flexible coating. It is highly durable waterproofing coating, having excellent resistance to UV.

Features / Advantages

- Non-toxic
- Water based product, hence an eco-friendly.
- Highly flexible will not brittle at wider temperature range, can be applied in moist roof also
- Excellent water vapour barrier
- Mechanical damage to the membrane can be easily repaired by spot application
- Excellent adhesion, can be applied to a wide range of substrates.
- Impervious -outstanding barrier properties ensure protection against corrosive soil conditions.
- Thermally stable - irreversible chemical cure eliminates melting and flow at high temperature
- Liquid applied membrane, can be applied with roller, brush or spray
- Flexible coating hence good crack bridging ability
- Resists positive water pressure
- Resistant to chemicals
- Excellent resistance to Chlorides and Alkalies
- Very high tensile strength

Typical application

- Building Roofs, Terraces & Balconies etc..
- External cellar sealing, Silos, store rooms.
- Flat or sloppy roofs, Chajjas
- Podium and inverted roofs.

Standard Compliance Technical Information

Rhino Terraseal PU-1K meets the requirements of ASTM C836

Sr.No.	Properties	Standard	Results
1	Appearance		Viscous white liquid
2	Specific gravity	(IS 101/1964)	1.3 ± 0.1
3	Solid Content	(IS 101/1964)	65 ± 2 %
4	Elongation	(ASTM D 412)	> 400 %
5	Tensile Strength		> 2.5 N/mm ²
6	Water Vapour transmission for 1.0 mm film	(ASTM D 4541)	8.2 g/m ² /24 hrs.
7	Permeability	(ASTM E 96)	Passes test
8	Crack Bridging		> 2 mm
9	Application Temperature		+5°C to +30°C
10	Recovery after 100 % elongation	(ASTM D 412)	> 80%
11	Temperature withstand capacity		-05°C to 80°C
12	Shore A hardness	(ASTM D 2240)	> 70
13	Drying Time		45-50 min depending upon temp/ humidity

Methods of Application

Surface Preparation

Substrate must be dry, clean, free of grease, loose particles & dust etc. Any existing cavities in concrete should be repaired with cementitious grout in advance. Intense wide cracks on the substrate must be filled with polymer modified mortar by using **Mahacrete SBR Super** or **Mahaproof PU-600** sealants. Allow to cure overnight before general application.

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Priming

Priming is required on concrete substrates. However, absorbent surfaces such as porous concrete sand/cement and cement boards will require sealing to prevent absorption of **Rhino Terraseal PU-1K**. This should be done by using **Mahaguard Uniprime** as base primer. For non-porous substrate use **Mahaguard Uniprime-11** as primer at a consumption of 5-7m²/L.

Application

1. Rhino Terraseal PU-1K is a membrane coating, not paint and as such protection is only achieved with a high film build, i.e. 1 mm minimum on flat surfaces.
2. Two coats are recommended on uneven and jointed surfaces to minimize the possibility of thin patches, missed areas and pin hole. Also sloping or vertical surfaces will only accept 0.5 mm per coat. In case of two-coat application, it is important to re-coat within 12 hours of the first coat becoming sufficiently cured to allow operator access.
3. The minimum application life (after opening the pack) is up to 48 hours if stored in closed containers.
4. A short haired synthetic coating brush should be used.
5. If a water test is to be done, the membrane should be fully cured. Minimum 72 hrs.
6. For better results use Glass Fiber Reinforcement embedded into 1st coat of Rhino Terraseal PU-1K while 1st coat is wet. Apply 2nd coat in the interval of 8 to 10 hrs after application of 1st coat.
7. The dry film thickness (DFT) of Rhino Terraseal PU-1K should not be less than 0.5mm per coat.

Precautions & Limitations

- Do not dilute Rhino Terraseal PU-1K with water or solvent.
- Do not apply the material above 35°C substrate temperature.



Packing

5 kg, 20 kg.



Storage and Shelf life

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



Consumption

1.3-1.5L/m²/2 coats for 1 mm DFT. It may vary and depends upon surface undulations and other detailing.



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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