



CRETESTONE

CRETOPROOF PU COAT

(Polyurethane Based Waterproofing Coatings)

Description

CRETOPROOF PU COAT is a premium, liquid applied, highly permanent elastic cold applied and cold curing, one component polyurethane hybrid membrane used for long-lasting water proofing

Uses

- Roofs
- Balconies, terraces and verandas
- Wet areas (under-tile) in bathrooms, kitchens
- Pedestrian traffic deck
- Old bitumen felts, asphalt felts, EPDM and PVC membranes and old acrylic coatings [To be done with suitable primer recommended by CRETESTONE representatives]
- Concrete constructions like bridge-decks, tunnels, stadium stands, etc...

Properties

- Simple application
- Resistant to water
- Resistant to frost
- Crack-bridging
- Provides water vapor permeability
- Provides excellent thermal resistance, it never turns soft

Instructions For Use

Surface Preparation

Careful surface preparation is essential for optimum finish durability. The surface needs to be clean, dry and sound, free of any contamination, which may harmfully affect the adhesion of the membrane. Maximum moisture content should not exceed 3%. Substrate compressive strength should be at least 25 MPa. New concrete structures need to dry for at least 28 days. Old, loose coatings, dirt, fats, oils, organic substances and dust need to be removed by a grinding machine. Any loose surface pieces and grinding dust need to be thoroughly removed.

Repair Of Cracks And Joints

The careful sealing of existing cracks and joints before the application is extremely important for long lasting waterproofing results.

CRETESTONE PRIVATE LIMITED



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Technical specs

Property	Results	Test Method
Color	Off-white/ light grey (Other colors on demand)	
Elongation at break	>600%	ASTM D 412/ DIN 52455
Tensile strength	>4 N/mm ²	ASTM D 412/ DIN 52455
Water vapor permeability	>30 gr/m ² /day	ISO 9932:91
Resistance to water pressure	No leak (1 m water column, 24 h)	DIN EN 1928
Adhesion to concrete	>2,0 N/mm ² (concrete surface failure)	ASTM D 903
Crack bridging capability	up to 2 mm crack (reinforced)	COTATR-008
Hardness (Shore A scale)	65 - 70	ASTM D 2240 (15")
Hydrolysis(5% KCl, 7 days cycle)	No significant elastometric change	Inhouse Lab
Service temperature	-30°C to +90°C	Inhouse Lab
Shock temperature (15 min)	200°C	Inhouse Lab
Rain stability time	3 - 4 hours	Conditions:20°C, 50% RH
Light pedestrian traffic time	18 - 24 hours	Conditions:20°C, 50% RH
Final curing time	7 days	Conditions:20°C, 50% RH
Chemicals properties	Good resistance against acidic and alkali solutions (5%), detergents, seawater and	

Priming

Prime surfaces like bitumen-asphalt felts, non-absorbent surfaces like metal, ceramic tiles and old coatings with CRETOPROOF EMB. Allow the primer to cure as per its technical instruction.

Instructions For Use

Stir well before using. Apply the first layer of CRETOPROOF PU COAT by roller, brush or airless spray until all surface is covered. Reinforce the CRETOPROOF PU COAT with polyester non-woven geotextile at problem areas like wall-floor connections, 90° angles, chimneys, pipes, waterspouts, etc. After 12-18 hours (not later than 48 hours) apply another layer of CRETOPROOF PU COAT. (For any special or detailed application please contact our technical support department) Do not apply the CRETOPROOF PU COAT over 0.6 mm thickness (dry film) per layer. For best results, the temperature during the application and cure should be between 5°C and 35°C. Tools are to be cleaned before polymerization with xylene.

Consumption

1.2-2 kg/m² applied in two or three layers depending on the substrate and client requirement. This coverage is based on application by roller onto a smooth surface in optimum conditions. Factors like surface porosity, temperature and application method can alter consumption.

Storage

Pails can be stored in dry and cool rooms for up to 12 months from manufacturing date in an unopened original package. Protect the material against moisture and direct sunlight. Storage temperature should be between +5°C and 30°C.

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Disclaimer

While the company guarantees its products against defective materials, the use and application of these products are made without guarantee since the conditions of their application are beyond its control. It is recommended to verify with the company that the product is suitable for the intended use, and that this Data Sheet version is the latest one. The company may modify it without prior notice. Technical characteristics are listed for guidance only. For more information, please contact the company's office in your location.

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