

INDOSIT™ PU 2003

(Polyurethane Based Waterproofing Coating)



INDOSIT™ PU 2003 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 VELOSIT 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.

Priming

Prime surfaces like bitumen-asphalt felts, non-absorbent surfaces like metal, ceramic tiles and old coatings with INDOSIT™ WP 2002. Allow the primer to cure as per its technical instruction.

Application

Stir well before using. Apply the first layer of INDOSIT™ PU 2003 by roller, brush or airless spray until all surface is covered. Reinforce the INDOSIT™ PU 2003 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 INDOSIT™ PU 2003. (For any special or detailed application please contact our technical support department) Do not apply the INDOSIT™ PU 2003 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.

Technical Data

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)	COTA TR-008
Hardness (Shore A scale)	65 - 70	ASTM D 2240 (15")
Hydrolysis (2% KCl, 7 days cyclic)	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	

Storage

Store under cover, out of direct sunlight and protect from extremes of temperature. Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging.

Disclaimer

Whilst any information contained herein is true, accurate and represents our best knowledge and experience, no warranty is given or implied with any recommendations made by us, our representatives or distributors, as the conditions of use and the competence of any labour involved in the application are beyond our control.

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