PRO-STRUCT LIQUID URETHANE WATERPROOFING

Fast-curing, durable waterproofing solution

PRODUCT DESCRIPTION:

Pro-Struct Liquid Urethane Waterproofing is a high strength, two-component liquid coating that cures into a flexible, durable membrane. Ideal for waterproofing diverse substrates, it adheres to wet or damp surfaces, resists UV degradation and offers long-lasting protection against water ingress.

PRIMARY APPLICATIONS:

- Waterproofing roofs, terraces and balconies
- Protecting metal profile sheets
- On top of PU insulation

FEATURES & BENEFITS:

- Excellent water and vapour resistance
- Non-hazardous and eco-friendly
- Strong adhesion to wet / damp surfaces
- Low VOC
- UV resistant and flexible
- Fast curing: 60 minutes at 25°C

TYPICAL PROPERTIES AT 25°C

Composition	Hybrid urethane
Packaging	5 Litre kit, Parts A & B
Components	2
Mixing Ratio	19:1
Consistency	Homogenous
Colour(s)	Grey
Mixing	Paddle mixer fitted to a drill
Pot Life	6 Hours
Application Method	Brush, roller or spray
Application Temperature	5°C to 45°C
Coverage / Spread Rate / Yield	**Wet areas:** 2 coat application at 1.31m^2/litre at 570µm DFT per coat (760µ WFT) **Damp proofing:** 1 coat application at 1.31m^2/litre at 570µm DFT (760µm DFT)
Drying / Curing Time	**Touch dry:** 25 Minutes **Initial cure:** 60 Minutes **Full cure:** 24 Hours
Cleaning	Clean equipment immediately after use with water. Hardened material can be removed mechanically only
Shelf Life	12 Months in original, unopened container

DIRECTIONS FOR USE:

Surface Preparation:

Concrete Surfaces:

Loose and unsound concrete should be chipped off and repaired with a suitable polymer modified repair mortar. Sharp edges and protrusions should be levelled off. Use of Pro-Struct Cleaner Degreaser is recommended to remove all contaminants like oil, grease, wax, etc. from the substrate. Thoroughly rinse with clean water to remove all traces of detergent.

Metal Surfaces:

Traces of rust shall be removed. Completely rusted surfaces shall be replaced. Ensure all joints are riveted properly.

PU Foam Surfaces:

Clean the surface of all accumulated dust and remove all loose particles.

Mixing:

Pour the contents of Part B into the Part A container and mix thoroughly with a proprietary paddle mixer fitted to a drill for 2 to 3 minutes until a homogenous consistency is achieved.

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Application:

Application procedure may vary slightly depending upon the site conditions. The general recommended guidelines for the application of the coating systems are as follows:

Pro-Struct Liquid Urethane Waterproofing shall be applied in a minimum of 2 coats. Critical areas like pipe penetrations and corner joints shall be treated first. Apply the first coat of Pro-Struct Rapid Liquid Rubber Waterproofing with a brush on all corners and around the pipe penetrations extending up to 200mm on either side. A fibre mesh / geotextile fleece shall be embedded into the coating whilst it is still in a wet condition. Apply a second coat over it after the previous coat dries off, ensuring that the reinforcing membrane is fully saturated. Then first coat of Pro-Struct Rapid Liquid Urethane Waterproofing shall be applied on all other areas with a brush or roller at a coverage rate of 0.75 litres/m^2. The second coat shall be applied after the first coat dries off completely and at right angles to the first coat.

SPRAY EQUIPMENT RECOMMENDATIONS:

Airless Spray Equipment	
Pump Ratio	45:1 (min)
GPM Output	2.5 (min)
Material Hose	10mm I.D.
Whip Hose	High pressure 6.35mm I.D.
Tip Size	0.023 to 0.029
Output PSI	2500 psi
Filter Size	Remove
Conventional Spray	Self-agitating pressure pot, 0.8 to 2mm nozzle tip, ¼" Hose (10 to 12mm), high pressure, 2500 psi

PRECAUTIONS / LIMITATIONS:

- Do not apply over lightweight concrete or foam concrete.
- Caution should be exercised while applying the product as it is with any other construction chemical.
- Protective gloves and safety glasses should be used when handling these products.
- If accidental eye contamination occurs, wash thoroughly with plenty of water and seek medical advice.
- If contact with skin occurs, it must be removed before curing takes place.

STORAGE:

Store under cover, out of direct sunlight and protect from extreme temperatures.

TECHNICAL INFORMATION:

Property	Test Method	Typical Results
VOC's	USEPA 25	<10g/l
Solids Content	ASTM D1353	75% ± 2%
Density	ASTM D1475	Mixed: 1.1 ± 0.05
Elongation	ASTM D412	>350%
Tensile Strength	ASTM D412	>2.5 N/mm^2
Tear Strength	AST, D624	>25N
Solar Reflectance	ASTM E1549	>75%
Shore A Hardness	ASTM D2240	45
Water Vapor Transmission	ASTM E96	6 Perms
Crack Bridging Ability	ASTM C836	<4mm
Maximum Service Temperature	-	5°C to 70°C

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