



SILKON
ADDITIVES (INDIA) PVT LTD

Silproof PU800

Silproof PU800 is High Performance water based liquid applied, moisture-cure polyurethane UV resistant waterproofing membrane. It creates an excellent elastic and continuously seamless membrane which protects against water ingress for a long lasting period. It conforms to ASTM C 836-898 Specification.

Product usages and advantages

- Ease of application and user friendly.
- Adheres well with any substrate and protects from water ingress.
- Excellent elasticity and crack bridging ability.
- Seamless membrane.
- Easily repairable.

Standards compliance

Silproof PU800 Complies ASTM C836-898 Specification

Description

Used as water proofing membrane in a variety of general concrete water proofing applications including covered areas of commercial and industrial buildings and exterior surfaces subject to light vehicle or pedestrian traffic loads for Concrete/ metal/ asbestos roof, bridge/ plaza decks, foundations , basements and tunnels.

Technical support

Silkon offers technical support service to specifiers, end users and contractors, as well as on-site technical support in locations all over the country.

Properties	Test Method	Result
Color and appearance	-	White / Terracotta/ Green /Black
Specific Gravity	-	1.5 ±0.05
Solid Content	-	>80%
Application Temperature	-	>5°C to <100°C
Dry Film Thickness	-	1.0mm
Elongation Break	ASTM D412 - 90	>400 %
Shore A Hardness	ASTM 2240-86	65
Water Permeability	BS EN 12390	Pass

Application Methodology

Surface Preparation

Careful surface preparation is essential for an ideal finish and durability. The surface needs to be clean, dry and sound, free of any contamination, which may harmfully affect the adhesion of the membrane. Any surface defects or sealing of existing cracks and joints must be done prior to the application of Silproof PU800 for long lasting waterproofing. The temperature of the substrate must be at least 5°C above the dew point both during and for at least 6 hours after application (at 15 °C).

Application

Apply a coat Silproof Primer on the substrate and allow to dry for an hour. Then, two or three coats of Silproof PU800 are applied on to the prepared substrate using brush or trowel or roller with recoatable time of minimum 16 hours. Recommended total DFT should be 1.5 mm.



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The curing time of the material is influenced by the ambience, material and substrate temperatures. At low temperatures, the chemical reactions are slowed down, this lengthens the pot life, open time and curing times and vice versa happens at high temperature.

If the reaction needs to be speeden up or when the temperature is lower, then apply the first coat of the mixed Silproof PU800 with Silproof Catalyst (400 gms) should be mixed thoroughly with Silproof PU800 (20 kg), without any air entrapment). The mixed Silproof PU800 should be consumed within 4 hrs. No other solvent should be used as diluents. Apply the second coat within 8-10 hrs and allow to cure.

Limitation

Do not wash the substrate with water.

Cleaning

Tools and equipment should be cleaned with a suitable solvent immediately after use

Coverage

Silproof consumption of Silproof PU800 Varies approximately from 1.5 – 1.9 kg/ m² when applied in two or three layers. This coverage is based on application by roller onto a smooth surface in optimum conditions. Factors like surface porosity, fabric reinforcement, temperature, application method, etc, can alter consumption.

Packing

Silproof PU800 - 20 Kg Tin

Storage

Silproof PU800 has a Shelf life of 6 months from the date of manufacturing, if unopened containers are stored in a cool dry place.

Technical Characteristic

Elongation, %	ASTMD 2370	400 ± 50
Tensile Strength. Mpa	ASTMD 2370	1.4±0.2
Adhesion To Primed Concrete, Mpa	ASTM D4541	0.40
Extension after Heat Aging, mm	ASTM C 836	6
Crack Bridging at low Temperature	ASTM C 836	No Cracking
Water Absorption %	IS 12326 Part-3	<5
Hardness Shore A	ASTM D 2240	>50

Safety Precautions

Highly flammable. Keep away from sources of ignition. Avoid prolonged contact with skin. Wear impervious gloves for hands and goggles for eyes. Any splashes on the skin / eyes should be washed immediately with clean water. Ensure adequate ventilation when using these products. In the event of prolonged exposure, seek medical attention.