

ShaliProtek® PU HA

Water Based Elastomeric High Abrasion PU Top Coat



STP Limited

Description

ShaliProtek® PU HA is a single component, water based, high abrasion, UV resistant, weather-stable cold applied, pigmented elastomeric polyurethane top coat for protection over water / solvent-based liquid as well as preformed waterproofing membrane.

ShaliProtek® PU HA can also be used on the concrete surface for waterproofing.

ShaliProtek® PU HA forms a seamless, monolithic, hydrophobic polyurethane coating, which, being tough as well as flexible, adheres to the base-membrane efficiently and protect it for long-term.

Characteristics - Physical

Color	White	Touch Drying time #, minutes	30 - 45
Solid content, %	> 60	Full cure time #, days	7
Service temp. range, °C	0 to 50	UV stability	Excellent
Theoretical Coverage *, 200 Micron DFT, Kg / m ²	0.5	VOC Content, gm / kg	Nil
Specific gravity @ 30 °C	1.33 ± 0.03	pH	Alkaline
Application Temperature, °C	> 5	Viscosity @ 30 OC, cps	4000 ± 500

* Depending upon surface condition

Depends upon weather condition.

Characteristics - Technical

Elongation, %	ASTM D 2370	600 ± 50
Tensile strength, MPa	ASTM D 2370	2.0 ± 0.2
Adhesion to primed concrete, Pull off strength, MPa	ASTM D 4541	2.0 ± 0.2
Crack bridging at low temperature	ASTM C 836	No cracking
Water Absorption %	IS 13826 Part 3	< 2
Hardness Shore A	ASTM D 2240	> 55
Elastic Recovery @ 150% elongation, %		88 ± 3
Abrasion Resistance (Taber Abrader), mg / 1000 cycles	ASTM D 4060	35
Tear Resistance, N/mm	ASTM D 412	20
Water vapor permeability, gr/m ² /day	ISO 9932:91	5
Resistance to Water Pressure, 1 m water column 24 Hr	DIN EN 1928	No leak

Application

- As top coat over newly laid liquid waterproofing system.
- As top coat over existing Waterproofing membranes.

Advantages

- Avoids protection through screed thus saving considerable load on roof.
- Tough / flexible / Hydrophobic.
- High abrasion resistance.
- Monolithic / seamless Membrane.
- Excellent adhesion to any membrane
- Simple application (Brush / Roller).
- Withstands normal foot traffic movement.

Application Methodology

➤ Surface Preparation

- Surface need to be clean, dry and free of any contaminations which may adversely affect the adhesion of the coating.
- Remove all loose gravel, dirt, oil, grease and foreign matter by jet of dry air.
- Ensure that the moisture content in the prepared surface does not exceed 5%.

➤ Material Preparation

- Stir **ShaliProtek® PU HA** by a slow speed mixture (approx. 400 rpm) fitted with a suitable mixing paddle to ensure a homogenous mix.
- After stirring, wait for the product to settle in order to let entrapped air escape.

➤ Top Coat Application

- Prime the surface with ShaliPrime BTB / ShaliPrime WB and apply @ 400 grm / m² for better aesthetic look.
- Allow the primed surface to touch dry.
- Apply **ShaliProtek® PU HA** by brush / roller / airless spray on the primed surface in single or multiple layers.
- Allow 3-4 hours to cure in between the two layers.

➤ Waterproofing Application

- For application on the bare concrete surface as waterproofing membrane, first clean the surface mechanically or by grinding, and then remove loose particles to make it smooth before application.
- Prime the surface as stated above.
- Apply **ShaliProtek® PU HA** in multiple coats to achieve 200-micron DFT.

Health & Safety

- Avoid contact with skin / eyes and avoid swallowing.
- Ensure adequate ventilation and avoid inhalation of vapour.
- Wear suitable protective clothing, gloves and eye protection.
- In case of skin contact, rinse with plenty of clean water, then cleanse with soap and water.
- Do not use solvent to clean the contacted area.
- In case of eye contact, wash with plenty of clean water and seek medical advice.
- If swallowed, seek medical attention immediately. Do not induce vomiting.

Packing

Available in 20 kg pack.

Storage

Store in a cool dry place, under shed, away from heat.

Shelf Life

12 months in original unopened sealed condition.



STP Limited
Enhancing Structures' Life

Product Range

- Waterproofing and Insulation ■ Road Surfacing
- Sealants and Additives ■ Pipeline Coating
- Protective / Anti-Corrosive Coating ■ Epoxy Flooring
- Grouts / Admixtures ■ RestoFix- Repair / Rehabilitation
- Other Construction Chemicals



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