

ShaliProtek® PU HA

Water Based Elastomeric High Abrasion PU Top Coat



Description

ShaliProtek® PU HA is a single component, water borne, UV resistant, pigmented elastomeric resin formulated as a durable, color-stable, abrasion resistant seamless, polyurethane coating, that protects the waterproofing basecoat of water based, solvent-based liquid applied membrane and preformed membrane efficiently and on a long-term basis.

Product Information

Form, Colour	White coloured liquid, other RAL colours on request.
Handling & Storage	The material must be stored in a shaded area with minimum exposure to sunlight and UV. The containers should be protected from all sources of heat and ignition. PROTECT FROM FROST.
Packaging	Available in 20 kg container.
Shelf Life	12 months when stored in unopened sealed conditions away from heat and sunlight.
Handling Precautions	The material is soluble in water, and therefore can be thinned by slowly adding purified water with thorough mixing. Only minor thinning should ever be needed. Seek medical assistance immediately in case of any allergy. It is not freeze/thaw stable, so do not allow to freeze.

Technical Characteristics @ 27°C, 60% RH

Total Solid Content, % by weight	ASTM D 2369	62 ± 2
Touch dry, minutes	IS 101	30 - 45
Density, gm / cc		1.33 ± 0.03
Light pedestrian traffic time, hours		18 - 24
Final Curing time, days		8 - 10
pH		8 - 10
Consumption, 200 µ DFT / Coat, kg / m ² **		0.4 - 0.7
Elongation, %	ASTM D 412	500 ± 50
Tensile Strength, MPa	ASTM D 412	2.0 ± 0.2
Adhesion to primed concrete, MPa	ASTM D 4541	2.0 ± 0.5
Crack bridging at low temperature	ASTM C 836	No cracking
Water Absorption, %	IS 13826 Part 3	< 2
Hardness Shore A, 10 days	ASTM D 2240	50 - 60
Elastic Recovery @ 150% elongation, %	ASTM D 412	88 ± 3
Abrasion Resistance (Taber Abrader), mg / 1000 cycles	ASTM D 4060	35
Tear Resistance, N / mm	ASTM D 412	20
Water vapor permeability, gm / m ² / day	ASTM E 96	5

** 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.

Application

- As top coat over newly laid liquid waterproofing system.
- As top coat over existing Waterproofing membranes.
- Waterproofing of most surfaces exposed to wear and weathering conditions.

Advantages

- Avoids protection through screed thus saving considerable load on roof.
- UV stable and also resistant to frost.
- High abrasion and wear resistance.
- Gives an easy to clean surface.
- Excellent adhesion to any membrane
- Simple application (Brush / Roller).
- Withstands normal foot traffic movement.

Application Information

- ✓ **Substrate Temperature** - +10°C Min / +40°C Max
- ✓ **Ambient Temperature** - +10°C Min / +40°C Max
- ✓ **Substrate Moisture Content** - < 5%

Application Methodology

➤ Surface Preparation

- Surface need to be clean, dry and free of any contaminations which may adversely affect the adhesion of the coating.
- 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. Possible surface irregularities need to be smoothened.
- Any loose surface pieces and grinding dust need to be thoroughly removed.

➤ 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 to escape.

➤ Top Coat Application

- Apply **ShaliProtek® PU HA** over waterproofing membrane by roller, brush or airless spray in one or two layers, depending on the future wear conditions expected.
- Allow 3 - 6 hours to cure in between the two layers.

Precautions

- Once the container is open, try to consume all the materials.
- Do not apply **ShaliProtek® PU HA** in temperatures below 5°C or when dew, rain or frost is imminent in the next 48 hours. Low temperatures retard cure while high temperature speed up curing. High humidity (fog or dew conditions) retard cure and affect the curing times and curing properties.

Value base of product data

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control and different test methods.

Health and Safety information

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent **Material Safety Data Sheet**.

- **This product contains Isocyanate.** Avoid contact with eyes and skin.
- 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.



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Product Range

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



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