

ShaliProtek® PuR H



2K Modified Hybrid Fast Setting Polyurea Elastomeric Coating

STP Limited

Description

ShaliProtek® PuR H is a two component, 100% solid, spray applied, rapid curing hybrid polyurea coatings for concrete / metal surface with very high durability and excellent flexible characteristics. It also gives high weather resistance, blister free impervious liquid waterproofing / protective coating with higher DFT in single coat.

Characteristics - Physical

Colour	Off White / Grey	Mixing ratio, w/w	1: 1
Volume solid, %	100	Theoretical coverage*, kg / m ² , 1 mm DFT	1
Tack free time, seconds	35 - 50		
Recoat, hours	1 - 2	Gel time @ 27°C, RH 60%, seconds	7 - 9
Trafficable time, hours	After 24		
Service Temperature, °C	- 35 to +80	Density, gm / cc	1.06 ± 0.03
Mixing ratio, v/v	1:1	Recommended DFT, mm, min	1.5
Application temperature, °C	-10 to +50	Substrate temperature, °C	-10 to + 50

* Depending upon surface condition

Characteristics - Technical

Property	Method	Result
Elongation at Break @ 7 Days	DIN EN ISO 527	400 ± 50
Tensile Strength @ 7 Days, MPa	DIN EN ISO 527	13 ± 2
Shore A Hardness @ 7 Days	ASTM D 2240	80 ± 5
Shore D Hardness @ 7 Days	ASTM D 2240	25 ± 5
Taber Abrasion @ CS 17, 1000 cycle, mg	ASTM D 4060	50 ± 2
Water Absorption, %	ASTM D 471	< 0.2
Pull off Adhesion, MPa • Concrete Surface • Metal Surface	ASTM D 4541	> 2.0 > 6.0
Salt Spray, 1000 hours	ASTM B 117	Pass
Chemical resistance • Spillages of mineral and hydraulic oils & fuels • Sea water • Dilute acids & alkalis in soils		Pass Pass Pass

Field of Application

- Waterproofing of
 - Concrete / Metal roofs
 - Tunnels
- Protective Coating on
 - Metallic Pipes
 - Metallic / Cementitious surface
 - Surface in contact with saline water
- Silos and hoppers coating
- Maybe applied on existing polyurethane waterproofing coatings
- Protection of polyurethane foam insulation

Advantages

- UV resistant, very fast setting blister free coating.
- Environment friendly.
- Ideal solution for waterproofing of walkable roofs.
- Prevents moisture penetration, provides complete sealing and anti-corrosion to the metal surface.
- Crack bridging properties.
- Excellent bonding to all building substrates like concrete, plaster, metal, wood.
- High resistance to bending and stretching.
- Very high mechanical strength.

Application Methodology

➤ Surface Preparation

- Remove all loose gravel, dirt, oil, grease and foreign matter by jet of dry air and clean the surface mechanically or by grinding to make it smooth before application.
- Ensure that new concrete must be 28 days old.
- For metal surface, surface profile of SA 2½ is required.

➤ Material Preparation

Stir separately Component A and Component B thoroughly by using slow speed mixer with a spiral type blade at the bottom of stirrer rod till homogeneous mix is obtained.

➤ Application of Material

- Prime the surface with **ShaliPrime® PUM** for concrete and **ShaliPrime® 2E** for metal surface.
- Allow it to dry.
- Use high pressure tip mixing machine with material temperature of 30 - 35°C and tip pressure of 100 - 150 bar.
- For higher DFT, apply subsequent coatings after 40 - 60 minutes.

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 200 ltr. pack each for Component A and Component B.

Storage

Keep in cool and dry place, under shed, away from heat and water.

Cleaning & Maintenance

Clean all tools immediately after use with STP Thinner only. Do not allow the material to harden.

Shelf Life

12 Months from the date of manufacture when maintain in protected storage in original unopened sealed condition at 5 - 38°C.



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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