

ShaliProtek® PuR 40

2K Brushable PolyUrea Coating



STP Limited

Description

ShaliProtek® PuR 40 (formerly known as ShaliProtek PuR 200) is a two component, brushable modified polyurea coatings for roof and metal surface with very high durability and excellent waterproofing / protective coating characteristics. It forms a high UV resistance, blister free impervious liquid membrane against moisture with very low water absorption.

Characteristics – Physical

Colour	White / Grey	Mixing ratio	
Volume solid, %	70 ± 3	• V/V	0.85 : 1
Tack free time, hrs	1	• W/W	1.7 : 1
Recoat, hrs	6 – 8	Trafficable time, hrs	After 24
Theoretical coverage*, m ² / Kg, 100 – 200 Micron DFT	2.5 – 5.0	Pot Life @ 27 °C, RH 60%, minutes	35 - 40
Service Temperature, °C	- 35 to + 80	Density, gm / cc	1.4 ± 0.05

* Depending upon surface condition.

Characteristics – Technical

Property	Method	Result
Elongation at Break, %	ASTM D 412	> 500
Hardness, Shore A	ASTM D 2240	70 ± 5
Tensile Strength, MPa	ASTM D 412	4 ± 0.05
Tear Resistance, N/mm	ASTM D 4073	45 ± 1
Water Absorption, %	ASTM D 471	< 0.2
Adhesion Mpa	ASTM D 4541	
• Concrete		> 2.5
• Steel		> 3.5
Solid content, %	ASTM C 836	85 ± 2

Application

- Waterproofing of
 - Concrete / metal roofs.
 - Tunnels
- Anti-corrosive coating of
 - Metallic pipes.
 - Metallic / cementitious surface.
 - Surface in contact with saline water.
- May be applied on existing new or old polyurethane waterproofing coatings.
- Protection of polyurethane foam insulation.

Advantages

- Blister free coating. No appearance of holes in the surface during the curing of material
- Ideal solution for waterproofing walkable roofs
- Prevents moisture penetration, provide complete sealing and anti-corrosion to the metal surface.
- Crack bridging properties with very high mechanical strength.
- Remarkable UV resistance.

- Excellent bonding to all building substrates like concrete, plaster, metal, wood.
- High resistance to bending and stretching.

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 65-70 micron, SA2 is required.
- Repair all cracks by cutting "V" groove and fill with PMC mortar prepared in the ratio of ShaliCrete : Cement : Sand (1 : 2 : 5).
- Provide 50 mm x 50 mm coving made out of PMC mortar as above.
- Ensure that the moisture content in the prepared surface does not exceed 5% immediately before application.

➤ Material Preparation

- Stir entire Component A thoroughly by using slow speed mixer with a spiral type blade at the bottom of stirrer rod till homogeneous mix is obtained.
- Add entire Component B into Component A. Both Component A & B comes in factory pre-weighed quantity.
- After stirring, wait for 5 minutes to ensure escape of entrapped air

➤ Application of Material

- Prime the surface with ShaliPrime PUM for concrete and ShaliPrime 2E for metal surface.
- Allow it to dry. For ShaliPrime 2E allow 6-7 hrs. for drying
- Apply 1st coat of **ShaliProtek[®] PuR 40** by brush / roller / spray on the primed surface.
- Allow it to dry for 10-12 hrs
- Apply second coat of **ShaliProtek[®] PuR 40** after 12 hrs, if required to get higher DFT.
- For putting the tiles for aesthetics, protect the surface with a screed of 50mm with ShaliPlast LW+ and cure with water method for 14 days. Put the tiles using tile glue and adhesive.

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 5 Kg and 10 Kg unit pack.

Storage

Keep in cool and 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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