

ShaliProtek[®] 2AC PU TC

2K Isocyanate Cured Aliphatic Acrylic PU UV Resistant Finish Coat



STP Limited

Description

ShaliProtek[®] 2AC PU TC is two components liquid aliphatic Acrylic Polyurethane based UV resistant gloss coating.

ShaliProtek[®] 2AC PU TC gives tough, flexible and solvent and mild chemical resistant coating.

ShaliProtek[®] 2AC PU TC is available in transparent as well as various colours.

Characteristics – Physical

Finish	Glossy	Application Temp, °C	10 – 40
Flash Point, °C		Drying time @30 °C	
• Base	> 30	• Touch dry, hrs	1
• Hardener	> 150	• Hard Dry, days	5
Recoating Time, hrs		Pot Life, 30 °C, hrs	4 - 5
• Minimum	8 ± 1	Theoretical Coverage*, m ² / L	12 - 13
• Maximum	48	Adhesion pull off, Mpa	4 - 5
Recommended DFT, Microns	43 - 47	Mixing Ratio (v/v)	9 : 1
Temperature resistance, °C (Dry)	>120	Hardness, Shore A, after 7 days curing	60 ± 5
Mix Density, g/cc	1.20 ± 0.05	Gloss @ 60°, %	>80

* Depending upon surface condition.

Characteristics – Technical

Property	Test Method	Result
Volume Solids, %	ASTM D 2697-03	57 ± 2
Impact resistance, (kg - inch)	ASTM D 2794	150
Abrasion resistance, mg	ASTM D 4060	< 80
Weathering resistance, % (after minimum 1000 hrs exposure), Colour change	ASTM D 4587 ASTM D 2244 ASTM D 523 Level 2	Gloss loss < 25 < 2 Δ E

Application

- Protection of heritage structure and statue.
- Extensive use in coastal and chemical environment.
- Power / Oil / Gas Plants / Offshore structures.
- Petrochemical / Pharmaceutical / Chemical Plants.
- Cement / Steel plants,
- Infrastructure projects.
- Marine structures.
- Rail coach and chemical wagon exteriors.

Advantages

- Resistant to
 - UV and weather.
 - High Impact and abrasion.
 - Industrial corrosive environment
- Better adhesion and flexibility.
- Direct to metal application.

Application Methodology

➤ Surface Preparation

- **Concrete Surface**
 - Prepare the surface by mechanical grinding or other suitable method.
 - Remove dust, flakes, oil, grease or other loose foreign particles by sand blasting, iron brush or compressed air. Remove old painting using surface grinder.
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 - For best bond, concrete surface must be slightly textured.
 - Ensure that concrete must be cured at least 28 days and moisture content is below 5%.
- **Metal Surface**
 - Remove all loose mill scale, oil, grease by wire brush and solvent
 - Blast the surface to Sa 2 or 2.5 depending on the severity of the condition

➤ Material Preparation

- Stir entire Component A thoroughly by using speed drill mixer with a spiral type blade at the bottom of stirrer rod. The speed may be 300 - 400 rpm till homogeneous mix is obtained.
- Add entire Component B in Component A. Both Component A & B comes in factory pre-weighed quantity in the ratios of 9 : 1 by volume.
- After stirring, wait for 5 minutes to ensure escape of entrapped air.

➤ Application of Material

- Prime the surface – in case of concrete with ShaliPrime PUM and in case of metal (optional) with ShaliPrime 2E.
- Allow it to dry for 6 – 8 hrs till it is touch dry.
- Apply **ShaliProtek® 2AC PU TC** by brush / roller / spray to the primed surface.

	Application		
	Conventional Spray	Airless Spray	Brush / Roller
Thinner, %	5 - 15	1 – 2 max	2 - 5
Nozzle Orifice, Thou, minimum	1.2 – 1.4	0.58	
Nozzle Pressure, Psi	40 - 70	2200 - 2500	
Recommended DFT, Minimum, micron			50

Cleaning

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

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 4 L and 20 L pack.

Storage

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

Shelf Life

12 months in original unopened sealed conditions.



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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