

ShaliProtek[®] AC PU TC

2K Aliphatic Acrylic Polyurethane UV Resistant Top Coat



Description

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

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

ShaliProtek[®] AC 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	• Surface Dry, min	30 - 40
• Hardener	> 150	• Hard Dry, hrs	6 – 8
Volume Solids, %	52 ± 2	• Full Cure, days	7
Recoating Time, hrs		Pot Life, 30 °C, hrs	4 - 5
• Minimum	8	Theoretical Coverage*, m ² / L	13 - 15
• Maximum	48	Adhesion pull off, Mpa	4 - 5
Recommended DFT, Microns	30 - 40	Mixing Ratio (v/v)	7 : 1
Temperature resistance, °C (Dry)	80	Hardness, Shore A, after 7 days curing	60 ± 5
Mix Density, g/cc	1.35 ± 0.10	Weather resistant	Good

* Depending upon surface condition.

Characteristics – Technical

Property	Test Method	Result
Impact resistance, (kg - inch)	ASTM D 2794	150
Abrasion resistance, mg	ASTM D 4060	< 80
UV resistance (QUV), hrs	ASTM G 154	1000

Application

- Protection of heritage structure and statue.
- Power Plants.
- Petrochemical / Pharmaceutical / Chemical Plants.
- Cement / Steel plants,
- Infrastructure projects.

Advantages

- UV and weather resistance.
- Better adhesion and flexibility.
- Mild Chemical resistance.
- 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%.

- Apply ShaliPrime PUM on the concrete surface
- Allow it to dry before application of **ShaliProtek® AC PU TC**.
- **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
 - Apply ShaliPrime ERO or ShaliPrime Zn Ph (Optional), can be applied on direct to metal surface.

➤ **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 7 : 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® AC PU TC** by brush / roller / spray to the primed surface.

	Conventional Spray Application	Airless Spray Application
Thinner, %	5 – 15	1 - 2 Max
Nozzle Orifice, Thou	1.2 – 1.4	0.58 Minimum
Nozzle Pressure, Psi	40 – 70	2200 - 2500

Cleaning

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

Health & Safety

- The product should not come in contact with the skin and eyes, or be swallowed.
- Ensure adequate ventilation and avoid inhalation of vapours as some people are sensitive to resins, hardeners and solvents.
- Wear suitable protective clothing, gloves and eye protection.
- In case of contact with skin, rinse with plenty of clean water, then cleanse with soap and water. Do not use solvent to clean the contacted area.
- In case of contact with eyes, rinse immediately with plenty of clean water and seek medical advice.
- If swallowed seek medical attention immediately - **do not** induce vomiting.

Packing

Available in 20 L unit consist of 17.5 L Component A and 2.5 L Component B.

Storage

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

Shelf Life

12 months in original unopened sealed conditions.



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