

ShaliUrethane[®] PU TC 2K



2K Aliphatic Polyurethane UV Resistant Top Coat

STP Limited

Description

ShaliUrethane[®] PU TC 2K is two component, liquid aliphatic polyurethane based UV and weather resistant coating. It is ideal protective coating for exposed surfaces as it provides excellent weather resistance and stability. **ShaliUrethane[®] PU TC 2K** films are hard, tough but flexible and display good solvent and gasoline resistance. **ShaliUrethane[®] PU TC 2K** is available in various colours.

Characteristics – Physical

Finish	Glossy	Application Temp, °C	10 – 40
Pot Life, 30 °C, hr	5	Volume Solids, %	50 – 60
Drying time @30 °C <ul style="list-style-type: none">• Surface Dry• Hard Dry• Full Cure	30 minutes, 6 hrs 7 days	Flash Point, °C Abel CC <ul style="list-style-type: none">• Base• Hardener	> 23 > 23
Theoretical Coverage, m ² /L *	6 to 8 @ 75 microns	DFT / coat, microns	60 – 75
Temperature Resistance, °C	Up to 120	Recoating Time, hrs <ul style="list-style-type: none">• Minimum• Maximum	6 48
Adhesion to Steel & Concrete	Excellent	Hardness, Shore D after 7 days curing)	60 - 70
Weathering resistance (QUV) ASTM G 154	1000 hrs		

* Depending upon surface condition.

Characteristics – Technical

Property	Test Method	Result
Impact resistance, (kg cm)	ASTM D2794	± 100
Abrasion resistance	ASTM D 4060	~ 40 mg
Weathering resistance (QUV)	ASTM G 154	1000 hrs

Application

- On shore and off shore industries.
- Power Plants.
- Petrochemical and Pharmaceutical complexes.
- Cement and steel plants, Transportation Industries.
- Infrastructure projects.
- Chemical plants.
- Protection of heritage structure and statue.

Advantages

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

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.
- Allow it to dry before priming.
- 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
- Apply ShaliPrime ERO or ShaliPrime Zn Ph
- Allow the primer to dry from solvent

➤ Material Preparation

- Mix **ShaliUrethane® PU TC 2K** component A (Resin) thoroughly by using speed drill mixer with a spiral type blade at the bottom of stirrer rod. The speed may be 350 - 400 rpm till homogeneous mix is obtained. Then add component B (Resin) slowly, mix with a slow speed stirrer ensuring complete dispersion.
- After stirring, wait for the product to settle in order to let entrapped air escape.

➤ Application of Material

- Prime the surface and allow it to dry for 6 – 8 hrs till it is touch dry and free from solvent.
- Apply **ShaliUrethane® PU TC 2K** by brush / roller / spray on primed surface.

	Conventional Spray Application	Airless Spray Application
Thinner, %	5 – 15	5 Max
Nozzle Orifice, mm	1.2 – 1.4	0.28
Nozzle Pressure, Psi	40 – 70	1400 - 1800

Cleaning

- Clean all tools immediately after use with xylene. 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 5 & 20 L units consist of Component A and B.

Storage

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

Shelf Life

12 months in original unopened sealed conditions.



Advisory Cell
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STP's Businesses
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