

# ShaliUrethane<sup>®</sup> PU TC 2K



2K Aliphatic Polyurethane UV Resistant Top Coat

STP Limited

## Description

**ShaliUrethane<sup>®</sup> 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<sup>®</sup> PU TC 2K** films are hard, tough but flexible and impart good solvent and gasoline resistance.

**ShaliUrethane<sup>®</sup> 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, %	60 ± 2
Drying time @ 30 °C <ul style="list-style-type: none"><li>• Surface Dry</li><li>• Hard Dry</li><li>• Full Cure</li></ul>	30 minutes, 6 hrs 7 days	Flash Point, °C <ul style="list-style-type: none"><li>• Base</li><li>• Hardener</li></ul>	> 23 > 23
Theoretical Coverage*, m <sup>2</sup> / L	6 - 8	DFT / Coat, Microns	70 – 80
Temperature Resistance, °C	Up to 120	Recoating Time, hrs <ul style="list-style-type: none"><li>• Minimum</li><li>• Maximum</li></ul>	6 48
Adhesion to Steel & Concrete	Excellent	Hardness, Shore D after 7 days curing	60 - 70
Gloss @ 60°, %	> 80		

\* 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, % (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

- On shore and off shore industries.
- Petrochemical and Pharmaceutical complexes.
- Cement / steel / chemical / power plants, Transportation Industries.
- Infrastructure projects.
- 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.
- Remove old painting using surface grinder.
- 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 350-400rpm till homogeneous mix is obtained. Then add component B (Hardener) 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

- 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 & 20 L unit 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.



**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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