

# ShaliUrethane<sup>®</sup> TC

Moisture Cure Aliphatic PU Top Coat For Metallic Substrate / Pipe



STP Limited

## Description

**ShaliUrethane<sup>®</sup> TC** is single component moisture cured, aliphatic polyurethane top coat filled with special grade of anti-corrosive fillers that offers superior bonding, flexibility and corrosion resistance to the substrate and gives excellent abrasion resistance.

## Characteristics - Physical

Colour	Grey	Density, kg / L	1.28 ± 0.03
Flash Point, °C	30	Sagging @ 150 micron	No
Cure Time		Theoretical Coverage*, m <sup>2</sup> / L, 150 micron, DFT*	5 - 5.5
• Tack free time, hr, @28 °C	4 - 5	Recommended thickness, DFT, micron	150
• Full cure time, Days	7		
• Handle time, hr	24		
• Coating interval window, hr	4-5		

\* Depending upon surface condition. Actual spray, brush application loss to be considered to calculate requirement

## Characteristics – Technical

Volume solid, %	ASTM D 2369	80 ± 2
Salt Spray, 5000 hr	ASTM B 117	Pass
Flexibility	ASTM D 522	Pass
Adhesion pull off test, MPa	ASTM D 4541	> 4 >2
• On Steel		
• On Concrete		
Water vapour transmission, grm / m <sup>2</sup> / 24 hrs	ASTM E 96	< 0.24
Abrasion resistance, mg	ASTM D 4060	< 95

## Application

- Pipeline exterior.
- Structural steel like bridges ballast tanks, storage tank, sluice gate, off shore platforms etc in ports.
- Power, Oil and Gas including waste water treatment, chemical / fertilizer plants.

## Advantages

- Tolerant to flush rusting.
- Compatible with most old coatings.
- No Induction time.
- High resistance to majority of chemicals and abrasion.
- UV resistant

## Application Methodology

### ➤ Surface Preparation

- Remove all loose gravel, dirt, oil, grease or other loose foreign particles by sand blasting / iron brush / compressed air.
- In case of steel pipe / structure, prepare surface by mechanical grinding, shot blasting conforming to SA2½.
- Steel surface, in case of outdoor use, should be cleaned conforming to SA 2.

- In case of concrete surface, ensure that the surface is free of honey combs etc. Repair all honey combs fill with PMC mortar prepared in the ratio of ShaliCrete : Cement : Sand (1 : 2 : 5).
- Ensure that the surface is free of condensation / moisture before priming. Moisture should be less than 5%.

#### ➤ **Material Preparation**

- Stir **ShaliUrethane® TC** by a slow speed mixture (approx. 400 rpm) fitted with a suitable mixing paddle to ensure a homogenous mix.
- After stirring, wait for the product to settle in order to let entrapped air escape.

#### ➤ **Application of Material**

- Prime surface with ShaliPrime MIO PU and allow it to dry.
- Apply **ShaliUrethane® TC** by single component airless spray gun / brush / roller.
- Allow it to dry for 4 – 5 hrs for subsequent coating.
- Drum, once opened, should be consumed totally

### **Cleaning & Maintenance**

Clean all tools immediately after use with STP cleaner.

### **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 20 L MS Drum,

### **Storage**

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

### **Shelf Life**

6 months from the date of manufacture when maintain in original unopened sealed condition at 5 - 38 °C.



**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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