

ShaliUrethane[®] TC

Moisture Cure PU Top Coat For Metallic Substrate / Pipe



STP Limited

Description

ShaliUrethane[®] TC is **single component** moisture cured polyurethane top coat filled with special grade of filler and unique grade of metal pipes coal tar fraction that offers superior bonding, flexibility and corrosive 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 ² /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		
• Recoat ability time, hr	4-5		

* Depending upon surface condition.

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	
• On Steel		> 4
• On Concrete		>2
Water vapour transmission, grm / m ² / 24 hrs	ASTM E 96	< 0.24

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.

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 PU MIO 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.

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 protected storage in original unopened sealed condition at 5 - 38 °C.



STP's Businesses
Waterproofing & Insulation
Road Surfacing
Pipeline Coating
Protective / Anti-Corrosive Coating
GARA (Grouts & Admixtures)
Sealant & Adhesives
Repairs & Rehabilitation
Epoxy Flooring

