

ShaliUrethane® TC

Moisture Cure Aliphatic Urethane Top Coat for Metallic / Concrete Substrates



Description

ShaliUrethane® TC is single component moisture cured, aliphatic urethane top coat filled with special grade of anti-corrosive fillers that offers superior bonding, flexibility and barrier resistance to the substrate and gives excellent UV resistance.

Characteristics - Physical

Colour	Pinkish Red	Density, gm / cc	1.29 ± 0.02
Flash Point, °C	30	Finish	Glossy
Cure Time @ 24°C, 60% RH <ul style="list-style-type: none">▪ Touch dry, hours▪ Full cure time, Days▪ Over Coating interval, hours	3 4 10 - 12	Theoretical Coverage*, m ² / L, 50 µ, DFT*	10.8
		Recommended DFT, µ	50 - 60

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

Characteristics – Technical

Volume Solids, %	ASTM D 2369	54 ± 2
Salt Spray at 150 µ DFT, 5000 hrs.	ASTM B 117	Pass
Flexibility, %	ASTM D 522	>35
Accelerated weathering test, 1000 hours	ASTM D 4587	< delta E QVA < 30, @ 60° angle
Colour Change	ASTM D 2244	
Gloss Loss	ASTM D 523	
Elasticity, Erichsen Scale	ISO 1520	3
Abrasion resistance, gm, 1000 cycles, CS 17	ASTM D 4060	< 0.2

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 SA 2½.
- 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 4%.

➤ **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 10 - 12 hours for subsequent coating.
- Drum, once opened, should be consumed totally.

Cleaning & Maintenance

Clean all tools immediately after use with STP Thinner.

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 20L 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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