

ShaliProtek® 2AC PU TC 50

2K Aliphatic Acrylic PU Solar Reflective, UV Resistant Top Coat



STP Limited

Description

ShaliProtek® 2AC PU TC 50 is two components, elastomeric, liquid, aliphatic, Acrylic Polyurethane based UV resistant gloss, transparent / pigmented, tough and yet flexible, high solar reflective coating.

It conforms to IS : 17218 : 2019.

Characteristics – Physical

Finish	Glossy	Application temperature, °C	10 - 40
Flash point, °C		Drying time, @ 30 °C	
• Base	> 30	• Surface dry, minute	30 – 40
• Hardener	> 150	• Hard dry, hrs	6 – 8
Volume solid, %	52 ± 2	• Full cure, days	7
Recoating time, hrs		Pot life, @ 30 °C	4 - 5
• Minimum	8	Theoretical coverage*, m ² / L	11 ± 1
• Maximum	48	Adhesion pull off, Mpa	7 - 8
Recommended DFT, micron	125 ± 5	Mixing ratio, (v/v)	9 : 1
Temperature resistance, °C, Dry	> 120	Hardness, Shore A, after 7 days curing	60 ± 5
Mix density, g / cc	1.25 ± 0.10	Solar Reflectance Index	103

* Depending upon surface condition.

Characteristics – Technical

Property	Test Method	Result
Impact resistance, (kg – cm)	ASTM D 2794	60
Abrasion resistance, mg	ASTM D 4060	< 80
UV resistance(QUV), 2000 hrs	ASTM G 154	Pass

Application

- Protection of heritage structure and statue.
- Extensive use in coastal and chemical environment.
- Power / Oil / Gas Plants / Marine.
- Offshore structures.
- Petrochemical / Pharmaceutical.
- Chemical Plants.
- Cement / Steel plants / infrastructure projects.
- Rail coach and chemical wagon exteriors.

Advantages

- Resistant to
 - UV and weather.
 - High Impact and abrasion.
 - Industrial corrosive environment
- Better adhesion and flexibility.
- Direct to metal application.

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.
- For best bond, ensure that concrete surface is textured.
- In case of new concrete, ensure that concrete is cured at least 28 days and moisture content is below 5%.
- Apply ShaliPrime PUM on the concrete surface
- Allow it to dry before application of **ShaliProtek® 2AC PU TC 50**.

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 (Optional), can be applied on direct to metal surface.

➤ Material Preparation

- Stir entire Component A (Resin) thoroughly till homogenous mix is obtained by using speed drill mixer with a special type blade at the bottom of stirrer rod.
- Add entire Component B (Hardener) into Component A. Both Component A & B comes in factory pre-weighted quantity in the ratio of 9 : 1 by volume.
- Stir the mix for two minutes.
- After stirring wait for 2 - 3 minutes to ensure escape of entrapped air.

➤ Application of Material

- Prime the surface in case of concrete with ShaliPrime PUM and in case of metal (optional) with ShaliPrime E.
- Allow it to dry for 6 – 8 hrs till it is touch dry.
- Apply **ShaliProtek® 2E PU TC 50** by brush / roller / spray on the primed surface.

	Application		
	Conventional Spray	Airless Spray	Brush / Roller
STP Thinner, %	5 - 15	1 – 2 max	2 - 5
Nozzle Orifice, Thou, minimum	1.2 – 1.4	0.58	
Nozzle Pressure, Psi	40 - 70	2200 - 2500	

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, consisting of Component A 18 L and Component B 2 L.

Storage

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

Shelf Life

12 months in original unopened sealed condition.



STP Limited
Enhancing Structures' Life

Product Range

- Waterproofing and Insulation
- Sealants and Additives
- Protective / Anti-Corrosive Coating
- Grouts / Admixtures
- Other Construction Chemicals
- Road Surfacing
- Pipeline Coating
- Epoxy Flooring
- RestoFix- Repair / Rehabilitation



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