

ShaliProtek® 2AC PU Surfacer



STP Limited

2K Aliphatic Acrylic Polyurethane Mid Coat

Description

ShaliProtek® 2AC PU Surfacer is two components, liquid, aliphatic Acrylic Polyurethane based mat coating.

ShaliProtek® 2AC PU Surfacer gives tough, flexible and solvent and mild chemical resistant coating.

ShaliProtek® 2AC PU Surfacer is smooth and uniform available in transparent as well as different shades.

Characteristics – Physical

Finish	Matt to Egg shell	Application Temperature, °C	10 - 40
Flash Point, °C		Drying time @ 30 °C	
• Component A	> 30	• Surface dry, minutes	2 – 3
• Component B	> 50	• Hard dry, hrs	6 – 8
Volume solid, %	52 ± 2	• Full cure, days	7
Recoating time, hrs		Pot life, 30 °C	3 – 4
• Minimum	8	Theoretical coverage*, M ² / L	8 – 10
• Maximum	48	Mixing ratio (v/v)	9 : 1
Recommended DFT, Micron	50 – 100	Mixed density, g / cc	1.23 ± 0.05
Temperature resistance, °C (Dry)	80	Hardness shore A, after 7 days curing	60 ± 5
Weather resistant	Good	Adhesion pull off, Mpa	4 – 5

* Depending upon surface condition.

Characteristics – Technical

Property	Test Method	Result
Impact resistance, (kg - inch)	ASTM D 2794	150
Scratch Hardness (1.5 Kg load)	IS: 101-88	Passes
Flexibility & Adhesion	IS:101-88	Passes
Abrasion resistance, mg	ASTM D 4060	< 80
UV resistance (QUV), 1000 hrs	ASTM G 154	Passes

Application

- Protection of heritage structure and statue.
- Extensive use in coastal and chemical environment.
- Power / Oil / Gas Plants / Offshore structures.
- Petrochemical / Pharmaceutical / Chemical Plants.
- Cement / Steel plants,
- Infrastructure projects.
- Marine structures.
- 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.
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 - For best bond, concrete surface must be slightly textured.
 - Ensure that concrete must be 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 Surfacer**.
- **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 thoroughly by using speed drill mixer with a spiral type blade at the bottom of stirrer rod. The speed may be 300 - 400 rpm till homogeneous mix is obtained.
- Add entire Component B in Component A. Both Component A & B comes in factory pre-weighed quantity in the ratios of 9 : 1 by volume.
- After stirring, wait for 5 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 2E.
- Allow it to dry for 6 – 8 hrs till it is touch dry.
- Apply **ShaliProtek® 2AC PU Surfacer** by brush / roller / spray to the primed surface.

	Application		
	Conventional Spray	Airless Spray	Brush / Roller
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	
Recommended DFT, Minimum, micron			50

Cleaning

- Clean all tools immediately after use with **STP Thinner**. 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 20 L unit consist of 18 L Component A and 2 L Component 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 & Insulation ■ Road Surfacing
- Sealants & Adhesives ■ Pipeline Coatings
- Protective/Anti-Corrosion Coatings ■ Epoxy and Flooring
- Grouts and Admixtures (GARA)
- RestoFix - Repair/Rehabilitation ■ Other Construction Chemicals



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