

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 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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