

# ShaliFloor® 2AC PU TC

2K Isocyanate Cured Aliphatic Acrylic PU UV Resistant Top Coat



STP Limited

## Description

**ShaliFloor® 2AC PU TC** is two component liquid aliphatic acrylic polyurethane based UV resistant, glossy floor coating which is tough, flexible, solvent and mild chemical resistant. It is available in transparent as well as in various colours.

## Product Information

<b>Form, Colour, Mixing Ratio</b>	Any Colour, two component polyurethane resin with mixing ratio of Component A : Component B = 92 : 8 (w/w)
<b>Handling &amp; Storage</b>	Store under cover out of direct sunlight and protect from extremes of temperature. In tropical climates the product must be stored in an air-conditioned environment. Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging.
<b>Packaging</b>	Available in 24 Kg unit pack comprising 22.08 Kg of part A and 1.92 Kg of part B.
<b>Shelf Life</b>	12 Months from the date of manufacture when maintain in protected storage in original unopened sealed condition at 5 - 38°C.
<b>Handling Precautions</b>	As with all chemical products, care should be taken during use and storage to avoid contact with eyes mouth, skin and foodstuffs. Treat splashes to eyes and skin immediately. If accidentally ingested, seek immediate medical attention. Keep away from children and animals. Reseal containers after use.

## Technical Characteristics @ 27°C, 55% RH

Property	Test Method	Result
Flash Point, °C <ul style="list-style-type: none"><li>• Base</li><li>• Hardener</li></ul>	ASTM D 93	30 - 35 >150
Pot life, hours, 100 gm of mix	ASTM D 2471	4 - 5
Drying time, <ul style="list-style-type: none"><li>• Touch dry, hours</li><li>• Foot traffic, days</li><li>• Vehicular traffic, days</li><li>• Full cure, days</li></ul>	ASTM C 722	1 - 2 1 2 7
Volume Solids, %	ASTM D 2697	60± 2
Theoretical coverage, kg / m <sup>2</sup> / 0.1 mm*	IS 101	0.30-0.35
Mix Density, gm / cc	ASTM D 1475	1.25 ± 0.05
Impact resistance, (kg - inch)	ASTM D 2794	150
Abrasion resistance, mg loss, 1000 cycles, CS 17	ASTM D 4060	80 - 90
Shore A hardness, 7 days	ASTM D 2240	50 - 60
Pull off adhesion, MPa	ASTM D 4541	1.5 - 2 (concrete failure)
Weathering resistance, % (after minimum 1000 hrs. of exposure), Colour change	ASTM D 4587 ASTM D 2244	Gloss loss < 25 < 2 ΔE
Gloss @ 60°, 1 day	ASTM D 2457	>80
Dry temperature resistance, °C (occasional)	--	120

\*Depends upon surface roughness, porosity, application method

## Field of Application

- Extensive use in coastal and chemical environment.
- UV resistant top coat of epoxy and polyurethane flooring.
- Petrochemical / Pharmaceutical / Chemical Plants.
- Top UV resistant coat for epoxy / polyurethane-based broadcast systems, such as underground car parks, maintenance hangars and for wet process areas, e.g., beverage and food industry.

## Advantages

- Resistant to
  - UV and weather.
  - High Impact and abrasion.
  - Industrial corrosive environment
- Decreased Friction and static charge formation.

## Application Information

- ✓ **Substrate Temperature** +10°C Min / +40°C Max
- ✓ **Ambient Temperature** +10°C Min / +40°C Max
- ✓ **Substrate Moisture Content** < 4%

## 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.
  - Remove old painting using surface grinder.
  - Ensure that concrete must be cured at least 28 days.

### ➤ 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 and stir thoroughly till homogeneous colour is achieved.
- After stirring, wait for 5 minutes to ensure escape of entrapped air.

### ➤ Application of Material

- Prime the surface with **ShaliPrime® 2E SF/ ShaliPrime® 2E**.
- Allow it to touch dry.
- Apply **ShaliFloor® 2AC PU TC** by brush / roller / spray to the primed surface/Epoxy or Polyurethane flooring.

## Value base of product data

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control and different test methods.

## Precautions

- Multiple coats may be required in order to have high dry film thickness.
- Exposure to very low temperature, high humidity, rain, water ponding during and after application may lead to incomplete curing, blistering and the above-mentioned coating properties may not be achieved.
- Additional losses, wastage, surface profile, ambient conditions should also be taken into consideration while correlating paint consumption and achieved DFT in case of field application.

## Health and Safety information

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent **Material Safety Data Sheet**.

- **This product contains Isocyanate.** Avoid contact with eyes and skin.
- Wear suitable protective clothing such as overalls, goggles, dust mask and gloves. Ensure that there is adequate ventilation in the area where the product is being applied.
- Do not breathe in vapour or spray mist.
- This product is flammable.
- Keep away from sources of ignition.
- Take precautionary measures against static discharge.
- In case of fire, blanket flames with foam, carbon dioxide or dry chemicals.
- Eye protection during application is recommended.
- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- In case of skin contact, wash with soap and plenty of water. Get medical attention if irritation develops or persists.

## Cleaning & Maintenance

Clean all tools immediately after use with STP Thinner only. Do not allow the material to harden.



**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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