

# ShaliFloor® SL AS 3PU

3K Polyurethane Self-levelling Anti-static Flooring



## Description

**ShaliFloor® SL AS 3PU** is a three component, polyurethane self-leveling antistatic dissipative flooring system, which is laid at a thickness from 3 mm to 5 mm.

**ShaliFloor® SL AS 3PU** is a multi-layer system comprising of ShaliPrime® 2E ASC, ShaliFloor® SL AS 3PU Base Coat and Top Coat.

A protective aliphatic coat of **ShaliFloor® SL AS 3PU** of 60 - 70 microns is suggested for colour retention of exposed areas.

**ShaliFloor® SL AS 3PU** provides monolithic, smooth, non-porous, hygienic, chemical resistant and easy to clean and maintain floor. It is available in number of colour and has excellent flexibility / adhesive properties. It provides a static dissipating floor with the use of additional earthing.

**ShaliFloor® SL AS 3PU** conforms to Standard BS 2050 and ASTM D 257.

## Characteristics - Physical

Finish	Semi-gloss	Pot life, 27°C, minutes	30 - 40
Drying time <ul style="list-style-type: none"><li>▪ Surface dry, hrs.</li><li>▪ Hard dry</li><li>▪ Full cure, days</li></ul>	3 - 4 Overnight 7	Theoretical Coverage* <ul style="list-style-type: none"><li>• ShaliPrime 2E ASC</li><li>• ShaliFloor SL AS 3PU (BaseCoat)</li><li>• ShaliFloor SL AS 3PU (Top Coat)</li></ul>	250 gm / m <sup>2</sup> 1.4 kg / m <sup>2</sup> / 1 mm 3.5 kg / m <sup>2</sup> / 2 mm
Static Decay Test, sec	0.03		

\* Depending upon surface condition.

## Characteristics - Technical

Property	Test Method	Result
Abrasion resistance, CS 17, 1000 cycle, mg	ASTM D 4060	80 ± 20
Surface resistivity	ASTM D 257	N x 10 <sup>6</sup> to N x 10 <sup>9</sup> ohms (where N = 1,2,3...)
Hardness Shore D	ASTM D 2240	≥ 60

## Application

- The System is recommended wherever there is generation of static current.
- Industrial floors requiring hygiene and high abrasion resistance.
- Pharmaceutical industries / hospitals / operation theaters.
- Electronic assembly areas.
- Food / beverages / kitchens.
- Automobile industry / automobile showrooms.

## Advantages

- Excellent self-leveling properties.
- Very hard impact and abrasion resistant.
- Resistance to chemicals, oils and water.
- Creates jointless, seamless dense surface facilitating cleaning and hygiene.
- Resists build-up of static electricity.
- Excellent chemical resistance.
- Dustproof finish.
- Available in wide range of colours.

## Application Methodology

### ➤ Surface Preparation

- Remove all loose gravel, dirt, oil, grease and foreign matter by jet of dry air and clean the surface mechanically or by grinding to make it smooth before application. Ensure that new concrete must be 28 days old.
- Copper wire or copper strip may be used depending upon the availability and suitability of the site.
- **Laying of Copper Strip:** Remove the butter paper and expose the adhesive of the copper strip. Stick the self-adhesive copper strip on to the clean concrete substrate at a distance of 1 M to each other, lengthwise and breadth wise. At the periphery, near to the walls, stick the self-adhesive copper strip at a distance of 6 inches from the walls. At any one end in the room, copper strip should be extended out for connection of earthing.

### ➤ Material Preparation

- Mix entire component A (Resin) & C (Filler) thoroughly by using speed drill mixer with a spiral type blade at the bottom of stirrer rod till homogeneous mix is obtained. Then add entire component B (Hardener) slowly, ensuring complete dispersion. After all of component C has been added, mix for a minimum of 5 to 10 minutes.
- After stirring, wait for 5 minutes to ensure escape of entrapped air.

### ➤ Application of Material

- **Priming**
  - Prime surface with **ShaliPrime® 2E ASC**.
  - Allow it to dry for 6 hrs.
- **Base Coat**
  - Apply **ShaliFloor® SL AS 3PU** base coat on primed surface.
  - Allow it to dry for minimum 12 hrs.
  - If necessary, roughen the surface with emery paper for better bonding of the top coat.
- **Top Coat**
  - Apply **ShaliFloor® SL AS 3PU** top coat over the base coat.
  - Allow 72 hrs. for using the floor.

## Limitation

**ShaliFloor® SL AS 3PU** may show some color fading with time in exposed areas and here direct light is falling though Flooring properties remain unaltered. A protective coat with **ShaliFloor® TC 2PU** is suggested to stop colour fading.

## Cleaning

Clean all the tools and application equipment with ShaliPoxy thinner immediately after use. Hardened or cured material can only be mechanically removed

## 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 carton consisting of Primer 10 kg (two components), Base Coat 15 kg (three components) and Top Coat 14 kg (three components).

## Storage

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

## Shelf Life

12 months in original unopened sealed condition.



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### Product Range

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- Road Surfacing
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- Pipeline Coating
- Protective / Anti-Corrosive Coating
- Epoxy Flooring
- Grouts / Admixtures
- RestoFix- Repair / Rehabilitation
- Other Construction Chemicals



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