

# ShaliFloor® SL 3EPU

3K Solventless Epoxy Polyurethane Self-levelling Topping System



## Description

**ShaliFloor SL 3EPU** is a three component, solventless, epoxy polyurethane self-levelling pigmented topping system, which is laid at a thickness from 1 mm to 2 mm. **ShaliFloor SL 3EPU** provides monolithic, smooth, non-porous, hygienic, chemical resistant and easy to clean and maintain flooring. It has excellent flexibility & adhesive properties and is available in several colours.

## Characteristics

Pot Life @ 27°C, 100 gm sample, minutes	30 - 40	Finish	Semi-Gloss
Application Temperature	Min. 15°C; Max. 30°C	Shore D Hardness ASTM D 2240	≥ 60
Surface Dry	4-6 hours	Abrasion Resistance, mg ASTM D 4060	0.1 - 0.15 mg / cycle weight loss
Drying Time	Hard Dry - Overnight Full Dry - 7 days*	Coverage*	1.8-1.9 kg /m <sup>2</sup> /mm thickness
Compressive Strength, N / mm <sup>2</sup> , 7 days	25-30	Tensile Adhesion, N / mm <sup>2</sup>	1.5

\* These figures are theoretical and do not allow any additional material due to surface porosity, surface profile, wastage and mode of application etc. It is recommended to check the actual coverage on a small area along with its aesthetic look before calculating the exact total consumption.

## Field of Application

- Industrial floors where hygiene and high abrasion is required
- Pharmaceutical Industry
- Food and Dairy Plant Flooring
- Hospital Floors
- Engineering and automobile industry shop

## Advantages

- Excellent self-levelling properties
- Very hard impact and abrasion resistant
- Excellent flexibility
- Good abrasion resistance
- Resistance to chemicals oils and water
- Creates jointless, easy to clean surface
- Dustproof finish
- Available in wide range of colours

## Application Methodology

### ➤ Surface Preparation

- Ensure that concrete surface is sound, even, firm and 28 days cured. Moisture content should not exceed 5%. The grade of the concrete should not be less than M25.
- Ensure that the surface is sound and free from dust, laitance and other contaminants.
- Remove oil / grease by washing with liquid detergent, followed by acid wash or by burning.
- Remove dust, flakes, or other foreign particles by jet or dry air and clean the surface mechanically by scarifying or by grinding to make it smooth before application.
- Remove any lime, distempers or acrylic coating prior to applying **ShaliFloor SL 3EPU** by surface grinder.
- Do not apply **ShaliFloor SL 3EPU** over treated expansion joints.
- Treat control joint and construction joint with **ShaliFix EM** mortar.
- Cut open the concrete floor at ends near to door entrances, around trenches and gutters etc. around 10 mm deep and 10 mm wide to accommodate blade and anchor **ShaliFloor SL 3EPU**.
- Make concrete surface textured by scarifying / shot blasting.

### ➤ Material Preparation

- Apply ShaliPrime 2 E/Shaliprime 2E SF as a suitable primer by trowel or by roller to form a thin continuous film as per coverage mentioned in the respective TDS and allow it to hard dry.
- Stir Component A and Component C of **ShaliFloor SL 3EPU** separately with a hand drill type spiral stirrer. Mix **ShaliFloor SL 3EPU** thoroughly with help of drill mixer till homogenous mixed is obtained. Then add Component B slowly, ensuring complete dispersion after adding Comp B. Mix for 5 - 10 minutes.

### ➤ Application of Material

- Lay **ShaliFloor SL 3EPU** after mixing. Spread mix evenly over recommended area using a steel trowel with notches. The notch of the trowel should be double the thickness of the **ShaliFloor SL 3EPU** coating.
- Anchor **ShaliFloor SL 3EPU** near walls, around columns / foundations and at edges of trenches / cutters / bays and expansion joints.
- Use spike roller with long handle on applied **ShaliFloor SL 3EPU** to remove entrapped air.
- Ensure that the spike roller is not applied too long to leave any permanent indentation on surface.

### Cleaning

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

### Health & Safety

- The product should not come in contact with the skin and eyes or be swallowed.
- Ensure adequate ventilation and avoid inhalation of vapors as some people are sensitive to resins, hardeners and solvents.
- Wear suitable protective clothing, gloves and eye protection.
- In case of contact with skin, rinse with plenty of clean water, then cleanse with soap and water. Do not use the solvent to clean the contacted area.
- In case of contact with eyes, rinse immediately with plenty of clean water and seek medical advice.
- If swallowed seek medical attention immediately. Do not induce vomiting

### Packing

Available in pre-packed system of 14 kgs.

### Storage

Store in a cool dry place under shed away from heat above 5°C and away from direct sunlight.

### Shelf Life

12 months in original unopened sealed condition.



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