

# ShaliFloor SL TC 4E



Four Component Pigmented Self Leveling Epoxy Floor Top Coat

STP Limited

## Description

**ShaliFloor SL TC 4E** (Formerly known as ShaliDeck SL) is a four component self leveling pigmented epoxy floor top coating, which is laid at a thickness from 0.5 mm to 2 mm. **ShaliFloor SL TC 4E** consists of graded aggregates bound in a pigmented epoxy resin. **ShaliFloor SL TC 4E** provides monolithic, smooth, non-porous, hygienic, chemical resistant and easy to clean and maintain floor. It is available in a number of colours and has sufficient strength to withstand industrial traffic with nylon / rubber wheels. **ShaliFloor SL TC 4E** is tested by CFTRI as per 21 CFR 175-300 of US FDA Test Method.

## Characteristics

Theoretical Coverage, per 26 kg *	8 m <sup>2</sup> @ 2 mm	Curing Time, @ 30 °C	
Approximate Pot Life, Minutes		• Foot Traffic, hrs	24
• 35 °C	20	• Vehicular Traffic, hrs	48
• 25 °C	60	• Full Cure, days	7
Shrinkage	Nil		
Mixed density, grm / cc	Approx 1.7	Shore Hardness	70 - 80
Tensile Strength @ 30 °C, N / mm <sup>2</sup> , 7 days	12	Compressive Strength @ 30 °C, N / mm <sup>2</sup> , 7 days	50
Flexural strength, @ 30 °C, N / mm <sup>2</sup> , 7 days	34	Adhesion strength, N / mm <sup>2</sup> , 7 days	> 1

\* Depending upon surface condition.

## Application

- Area requiring hygienic monolithic floor like pharmaceutical Industries, operation theatres & corridors in hospitals and nursing homes, pathological laboratories, bottling plants, dairies & breweries, fermentation floors in tea garden and food processing units. –
- Nuclear plants, computer and control panel rooms
- Industries like electric and electronic Industries, picture tube manufacturing plants, textile mills.
- Automobile workshops and showrooms.
- Oil Rigs.

## Advantage

- Resists chemical, fungal & bacterial growth.
- Abrasion Resistance.
- Easy to apply, flowable consistency.
- Excellent bond to concrete and other substrates like Kota stones (seamless, non staining)
- Provides monolithic surface with good aesthetics.

## Application Methodology

- 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 TC 4E** by surface grinder.
- Do not apply **ShaliFloor SL TC 4E** over treated expansion joints. Treat expansion joints with ShaliSeal PS.
- 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 TC 4E**.
- Make concrete surface textured by scarifying / short blasting.
- Mix Component A and Component B (Ratio of 3:1) of ShaliPrime 2E and apply on the cleared and prepared surface by brush or by roller to form a thin continuous film and allow it to dry for 6 – 8 hrs.
- Stir Component A of **ShaliFloor SL TC 4E** thoroughly, preferably, with stirrer having speed of 400-500 rpm
- Add Component D (colour paste) of **ShaliFloor SL TC 4E** to the above stirred component A and ensure that full colour paste is mixed by washing the container of colour paste with stirred component A. Mix thoroughly with help of drill mixer till homogenous coloured mix is obtained.
- To this coloured mixture, add component C (powder) of **ShaliFloor SL TC 4E** slowly and then add component B slowly in the above compound and ensure complete dispersion. Mix for 5-10 minutes till homogenous mix is obtained.
- Lay the above mix of **ShaliFloor SL TC 4E** and spread evenly over recommended area using a notch trowel. The notch of the Trowel should be double the desired thickness of the **ShaliFloor SL TC 4E** top coat.
- Anchor **ShaliFloor SL TC 4E** 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 TC 4E** to remove entrapped air. Ensure that the spike roller is not applied too long to leave any permanent indentation on surface. During application use spike shoe.
- When applied over steel surfaces, underlayment of ShaliFix RM C is must. Thickness of ShaliFix RM C should be maintained minimum of 5 mm. For application methodology of ShaliFix RM C, refer to TDS of ShaliFix RM C.

### Limitations

- Do not apply **ShaliFloor SL TC 4E** on surfaces known to, or likely to, suffer from rising dampness, potential osmosis problems or having relative humidity greater than 75 %.
- Do not apply **ShaliFloor SL TC 4E** to asphalt, weak or infirm concrete, unmodified sand / cement screeds, PVC tiles or sheets, or substrates known to move substantially e.g. steel walkways.
- Do not install **ShaliFloor SL TC 4E** at temperature  $< 10^{\circ}\text{C}$  or  $> 45^{\circ}\text{C}$ .
- Do not apply **ShaliFloor SL TC 4E** over treated expansion joints. Treat expansion joints with ShaliSeal PS.
- In common with all epoxy material, some light shed may fade in the long term, when place in adverse exposed condition. Such changes, if any, are normal and have no effect of performance of **ShaliFloor SL TC 4E**.

### Cleaning & Maintenance

- Clean all tools immediately after use with xylene. Do not allow material to harden.
- Service life of a floor will be considerably extended by good housekeeping. Regular cleaning may be carried out using a rotary scrubbing machine with a warm miscible cleaning agent at temperature up to  $50^{\circ}\text{C}$ .

### Health & Safety

- Avoid swallowing and contact with skin / eyes.
- In the unlikely event of contact with skin, rinse with plenty of clean water and then cleanse with soap and water. Do not use solvent to clean the contacted area.

- In case of contact with skin, rinse with plenty of clean water, then cleanse with soap and water. Do not use solvent to clean the contacted area.
- If swallowed, seek medical attention immediately. Do not induce vomiting.
- Ensure adequate ventilation and avoid inhalation of vapours.
- Wear suitable protective clothing, gloves and eye protection during application.

### **Packing**

Available in 26 kgs composite pack.

### **Storage**

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

### **Shelf Life**

12 months in original unopened sealed conditions.

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