

# ShaliFloor® SL TC 3E

3K Pigmented Self Leveling Epoxy Floor Top Coat



STP Limited

## Description

**ShaliFloor® SL TC 3E** is a three component self-leveling pigmented epoxy resin-based floor top coating, which is laid at a thickness from 0.5 mm to 2 mm. **ShaliFloor® SL TC 3E** consists of graded aggregates bound in a pigmented epoxy resin. It 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.

## Approval / Standards

CFTRI as per 21 CFR 175-300 of US FDA Test Method.

## Technical Characteristics at 30°C, 55% RH

Mixed Density, gm / cc	1.7 ± 0.03	Mixing Ratio of A : B : C, by weight	19.8 : 10.2 : 70
Approximate Pot Life, minutes 35°C 25°C	20 - 30 50 - 60	Curing Time, • Foot Traffic, hrs. • Vehicular Traffic, hrs. • Full Cure, days	24 48 7
Tensile Strength, N / mm <sup>2</sup> , 7 days	11 - 14	Compressive Strength, N / mm <sup>2</sup> , 7 days	49-52
Flexural strength, N / mm <sup>2</sup> , 7 days	32 - 35	Adhesion strength, N / mm <sup>2</sup> , 7 days	> 1
Shore D Hardness	70 - 80	Theoretical Coverage, per 26 kg *	8 m <sup>2</sup> @ 2 mm

\* Depending upon surface porosity, material wastage.

# All the above data are subjected to 5 - 10% tolerance

## Field of 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 resistant.
- 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

### ➤ Surface Preparation

- 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.
- For best bond, concrete surface must be slightly textured.
- Allow it to dry before priming.

➤ **Material Preparation**

- To Component A (Pigmented Resin), add component C (powder) and then add component B (Hardener) slowly in the above compound and ensure complete dispersion. Mix for 5 - 10 minutes with help of drill mixer till homogenous colour is obtained.

➤ **Application of Material**

- Prime concrete surface with **ShaliPrime 2E / ShaliPrime 2E SF** @ 8 - 10 m<sup>2</sup> / L and allow it to touch dry.
- Apply mix of **ShaliFloor® SL TC 3E** 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 3E** top coat.
- Anchor **ShaliFloor® SL TC 3E** 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 3E** to remove entrapped air. Ensure that the spike roller is not applied too long to leave any permanent indentation on surface.
- 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, refer to TDS of **ShaliFix RM C**.
- Do not apply **ShaliFloor® SL TC 3E** over treated expansion joints. Treat expansion joints with **ShaliSeal PS PG**.

**Limitations**

- Do not apply **ShaliFloor® SL TC 3E** 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 3E** 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 3E** at temperature < 10°C or > 45°C.
- Do not apply **ShaliFloor® SL TC 3E** over treated expansion joints. Treat expansion joints with **ShaliSeal PS PG**.
- 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 3E**.

**Cleaning & Maintenance**

- Clean all tools immediately after use with STP Thinner only. 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°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. During application use spike shoe.

**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 when stored between 5 - 38°C.



**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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