

ShaliFloor® SL TC 4 E



4K Pigmented Self Leveling Epoxy Floor Top Coat

STP Limited

Description

ShaliFloor® SL TC 4 E (Formerly known as ShaliDeck SL) is a four 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 4 E** consists of graded aggregates bound in a pigmented epoxy resin. **ShaliFloor® SL TC 4 E** 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 4 E is tested by CFTRI as per 21 CFR 175-300 of US FDA Test Method.

Characteristics

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

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

➤ Material Preparation

- Add Component D (colour paste) of **ShaliFloor® SL TC 4 E** to the above stirred component A (Resin) 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 4 E** slowly and then add component B (Hardener) slowly in the above compound and ensure complete dispersion. Mix for 5-10 minutes till homogenous mix is obtained.

➤ Application of Material

- Prime concrete surface with ShaliPrime 2E and allow it to dry for 6 – 8 hrs till it is touch dry.
- Apply mix of **ShaliFloor® SL TC 4 E** 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 4 E** top coat.
- Anchor **ShaliFloor® SL TC 4 E** 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 4 E** 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 ShaliFix RM C, refer to TDS of ShaliFix RM C.
- Do not apply **ShaliFloor® SL TC 4 E** over treated expansion joints. Treat expansion joints with ShaliSeal PS.

Limitations

- Do not apply **ShaliFloor® SL TC 4 E** 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 4 E** 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 4 E** at temperature $< 10^{\circ}\text{C}$ or $> 45^{\circ}\text{C}$.
- Do not apply **ShaliFloor® SL TC 4 E** 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 4 E**.

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°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.



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