

ShaliFloor® SL 3E FR

3K Solvent Free Self Levelling Fire Retardant Epoxy Flooring



Description

ShaliFloor® SL 3E FR is a 100% volume solid three component self-leveling pigmented fire retardant epoxy floor coating, preferably laid at a thickness 2 mm.

ShaliFloor® SL 3E FR provides monolithic, smooth, non-porous, hygienic, chemical resistant, fire retardant and easy to clean and maintain floor. It is available in a number of colours and can withstand industrial traffic with nylon / rubber wheels. Fire retardant passes as per UL – 94, V – 0 methods.

Characteristics

Theoretical Coverage*, @ 1.5 mm DFT, m ² / L	0.66	Curing Time, @ 30 °C	
Pot Life @25 °C, h	2 – 2.5	• Foot Traffic, hrs	8 - 10
Shrinkage	Nil	• Vehicular Traffic, hrs	24
Shore Hardness Shore D	75 - 80	• Full Cure, days	7
Tensile strength @ 30 °C, N / mm ² , 7 days	> 8	Fire Retardant, UL – 94, V - 0	Passes
Adhesion strength, N / mm ² , in Concrete, 7 days	> 2.5	Compressive Strength @ 30 °C, MPa	>70
		Mixed density, gm / cc	1.40 ± 0.05
		Application temperature, °C	< 10 to > 45

* Depending Upon Surface Condition.

Application

- Railway coach / toilet.
- Automobile workshops and showrooms.
- Oil rigs.
- Power plants.

Advantage

- Fire and abrasion resistant.
- Easy to apply, flow able consistency.
- Excellent bond to metal surface, concrete and other substrates like Kota stones (seamless, non-staining)
- Provides monolithic surface with good aesthetics.

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
- Remove oil / grease by washing with liquid detergent, followed by acid wash or by burning. Allow it to dry before priming.
- 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
- 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 3E FR**.

- For metal surface make the surface profile by sand or shot blasting for better adhesion.
- Remove old painting using surface grinder.
- For best bond, concrete surface must be slightly textured.

➤ **Material Preparation**

- Stir thoroughly **ShaliFloor® SL 3E FR** component A (Resin) & B (Hardener) separately by using speed drill mixer with a spiral type blade at the bottom of stirrer rod till homogeneous mix is obtained. Add Component C (colour paste) of **ShaliFloor® SL 3E FR** 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 colored mix is obtained
- To this colored mixture, add component B slowly in the above compound and ensure complete dispersion. Mix for 5-10 minutes till homogenous mix is obtained.
- After stirring, wait for the product to settle in order to let entrapped air escape.

➤ **Application of Material**

- Prime concrete surface with ShaliPrime 2E and allow it to dry for 6 – 8 hrs till it is touch dry.
- Lay **ShaliFloor® SL 3E FR** after mixing is over. Spread mix evenly over recommended area using a steel trowel with notches.
- Anchor **ShaliFloor® SL 3E FR** 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 3E FR** to remove entrapped air. Ensure that the spike roller is not applied too long to leave any permanent indentation on surface.
- Compact the material by tamping with a wooden float. Finish off by toweling with steel trowel to a smooth finish.

Limitations

- Do not apply **ShaliFloor® SL 3E FR**
 - on surfaces known to, or likely to, suffer from rising dampness, potential osmosis problems or having relative humidity greater than 75 %.
 - to asphalt, weak or infirm concrete, unmodified sand / cement screeds, PVC tiles or sheets, or substrates known to move substantially e.g. steel walkways.
- 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 3E FR**.

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 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 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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Product Range

- Waterproofing & Insulation ■ Road Surfacing
- Sealants & Adhesives ■ Pipeline Coatings
- Protective/Anti-Corrosion Coatings ■ Epoxy and Flooring
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