

# ShaliDeck SL

Three Component Pigmented Self-leveling Epoxy Floor Coating



## Description

**ShaliDeck SL** is a three component pigmented epoxy floor coating which is laid at a thickness from 0.5 mm to 2 mm. **ShaliDeck SL** 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.

## Characteristics

Compressive Strength, N/mm <sup>2</sup>	50.0	Flexural Strength, N/mm <sup>2</sup>	35.0
Adhesion to concrete, N/mm <sup>2</sup>	3.0	Tensile Strength, N/mm <sup>2</sup>	18.0
Water absorption	Nil	Elongation at break, %	8
Rockwell Hardness on R Scale	8.2	Pot Life, Minute	60 – 70
Shrinkage	Nil		

## 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, food processing – fisheries, meat processing, pickles processing units etc.
- Nuclear plants, computer and control panel rooms
- Industries like aerospace including airport hangers, 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 with flow able 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 M-25.
- 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 **ShaliDeck SL** by surface grinder.
- Do not apply **Shalideck SL** over treated expansion joints. Treat expansion joints with **ShaliSeal PS**.
- Treat control joint and construction joint with **Shalimar 456** 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 **Shalideck SL**.
- Make concrete surface textured by scarifying / short blasting.
- Mix Component A and Component B (Ratio of 3:1) of **ShaliPrime Epoxy** (Primer) and apply on the cleared and prepared surface by brush or by roller to form a thin continuous film @ 250 gms / Sq M and allow it to dry for 6 – 8 Hrs..

- Stir Component A and Component C of **ShaliDeck SL** separately with a hand drill type spiral stirrer. Mix **ShaliDeck SL** 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.
- Lay **ShaliDeck SL** 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 ShaliDeck SL coating.
- Anchor **ShaliDeck SL** near walls, around columns / foundations and at edges of trenches / cutters / bays and expansion joints.
- Use spike roller with long handle on applied **ShaliDeck SL** 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 **Concrete Coat** is must. Thickness of concrete coat should be maintained minimum of 5 mm. For application methodology of Concrete coat, refer to TDS of **Concrete Coat**.

### Limitations

- Do not apply **ShaliDeck SL** on surfaces known to, or likely to, suffer from rising dampness, potential osmosis problems or having relative humidity greater than 75 %.
- Do not apply **ShaliDeck SL** to asphalt, weak or infirm concrete, unmodified sand / cement screeds, PVC tiles or sheets, or substrates known to movement.
- Do not apply **ShaliDeck SL** at temperature < 10 °C or > 45 °C.
- In common with all epoxy material some shades may fade in the long term, when exposed to adverse conditions. Such changes, if any, are normal and have no effect of performance of **ShaliDeck SL**.

### 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

- Use mask, nose cover and hand gloves during application.
- Clean hands with soap after application.
- Avoid contact with skin / eyes. In case of unlikely contact with eyes, rinse immediately with plenty of clean water, then cleanse with soap and lukewarm water and seek medical advice. Do not use solvent to clean the contacted area.
- Prevent swallowing. In case of unlikely swallowing, seek medical attention immediately. Do not induce vomiting.

### Packing

Available in 14 Kgs box combination of Component A, B & C

### Storage

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

### Shelf Life

6 months in original unopened sealed conditions.