

# ShaliFloor® SL UL 3ES

3K Epoxy Self-Leveling Underlay Epoxy Screed



## Description

**ShaliFloor® SL UL 3ES** (Formerly known as ShaliScreed SL UL) is pre-weighed self-leveling epoxy underlay screed floor coating system. It is three component epoxy system with selected aggregates and epoxy resins. **ShaliFloor® SL UL 3ES** provides a hard, semi-smooth, impervious and easy to clean surface. It also has excellent adhesion and provides good abrasion resistance on floors. It can be coated with any epoxy coatings, self-leveling system or Polyurethane coatings.

## Product Information

|                               |  |
|-------------------------------|--|
| <b>Mixing Ratio</b>           | Component A : Component B : Component C = 3.64 : 2.86 : 19.5 by weight   |
| <b>Handling &amp; Storage</b> | Store under cover out of direct sunlight and protect from extremes of temperature. In tropical climates the product must be stored in an air-conditioned environment. Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging.   |
| <b>Packaging</b>              | Available in 26 kg unit pack comprising all the three components in a cartoon box.   |
| <b>Shelf Life</b>             | 12 Months from the date of manufacture when maintain in protected storage in original unopened sealed condition at 5 - 38°C. Failure to comply with the recommended storage conditions may result in premature deterioration of the product.   |
| <b>Colour Variation</b>       | When applicable, products primarily meant for use as primers may have slight colour variations from batch to batch. Such products may fade and chalk when exposed to sunlight and weathering.<br>Colour and gloss retention on topcoats/finish coats may vary depending on type of colour, exposure environment such as temperature, UV intensity etc., and application quality. |

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

| Property   | Method      | Result      |
|--|-------------|-------------|
| Pot life, minutes                                      | ASTM D 2471 | 20 - 40     |
| Theoretical Consumption, kg / m <sup>2</sup> / 2 mm ** |             | 3.7 - 4.2   |
| Mixed Density, gm / cc                                 |             | 1.82 ± 0.05 |
| Curing time, hours                                     |             |             |
| Foot Traffic,  |             | 22 - 26     |
| Vehicle Traffic  |             | 48 - 52     |
| Full cure, days  |             | 7           |
| Compressive Strength, 7 days, N / mm <sup>2</sup>      | ASTM C 579  | 28 - 35     |
| Flexural Strength, 7 days N / mm <sup>2</sup>          | ASTM D 790  | 18 - 22     |
| Shore D Hardness, 7 days                               | ASTM D 4060 | 60 - 80     |
| Bond strength to concrete, N / mm <sup>2</sup>         | ASTM D 4541 | 2.0 - 3.0   |

\*\* These figures are theoretical and do not include for any additional material required due to surface porosity, surface profile, variations in level and wastage etc.

## Field of Application

- Leveling floor prior to application of epoxy screed, epoxy topping and coating.
- May be used over various substrates like cement, kota stone, marble, etc. particularly in Laboratories, Assembly Units, Pharmaceuticals, Automobile and other manufacturing units.

## Advantages

- Cost effective, hygienic, easy to clean and economical.
- Good chemical resistance to wide range of chemicals.
- Quick and easy to apply.
- Seamless and durable.
- High strength.

## Application Information

- ✓ **Substrate Temperature** +10°C Min / +40°C Max
- ✓ **Ambient Temperature** +10°C Min / +40°C Max
- ✓ **Substrate Moisture Content** < 5%

## System

|              |                       |
|--------------|-----------------------|
| Primer       | ShaliPrime® 2E SF     |
| Epoxy Screed | ShaliFloor® SL UL 3ES |

## 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 sandblasting, iron brush or compressed air.
- Remove old painting using surface grinder.
- For best bond, concrete surface must be slightly textured.
- Allow it to dry before priming.

### ➤ Material Preparation

- A suitable power-driven mixer / stirrer is recommended for uniform mixing of the **ShaliFloor® SL US 3ES**.
- Stir the base and hardener separately.
- Mix Component B (hardener) gradually into the component A (base) under continuous stirring as per the stated mixing ratio. Continue the mixing for 3 - 4 minutes.
- Mix the aggregates (component C) into the mixed resin portion uniformly under continuous mechanical agitation. Mix well for 3 - 5 minutes till the components become homogeneous.
- After stirring, wait for the product to settle in order to let entrapped air escape.

### ➤ Application of Material

- Divide the total area into bays, covering only an area that can be applied within the pot life of the product. Place the underlay while the primer coat (**ShaliPrime 2E SF**) is still tacky using a steel trowel with notches.
- Anchor **ShaliFloor® SL UL 3ES** 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 UL 3ES** to remove entrapped air. Ensure that the spike roller is not applied too long to leave any permanent indentation on surface.

## Precautions

- Do not apply **ShaliFloor® SL UL 3ES** 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 UL 3ES** 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 apply **ShaliFloor® SL UL 3ES** 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 UL 3ES**.

## Value base of product data

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control and different test methods.

## Health and Safety information

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent **Material Safety Data Sheet**.

- Please observe the precautionary notices displayed on the container.
- Use under well ventilated conditions.

- Do not inhale spray mist.
- Avoid skin contact.
- Spillage on the skin should immediately be removed with suitable cleanser, soap and water.
- Eyes should be well flushed with water and medical attention sought immediately.
- If swallowed, seek medical attention immediately. Do not induce vomiting.

### Cleaning & Maintenance

- Clean all tools immediately after use with STP Thinner only. Do not allow the 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 upto 50°C.



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### Product Range

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