

ShaliFloor® SL UL 2ES



2K Epoxy Self-Leveling Epoxy Underlay Flooring with Quartz Sand

STP Limited

Description

ShaliFloor® SL UL 2ES is a self-leveling epoxy underlay flooring system in combination with **Quartz Sand** or equivalent in a particular proportion. It provides a hard, smooth, impervious and easy to clean surface. It also has excellent adhesion and provides good abrasion resistance on floor which can also be coated with any epoxy coatings, self-leveling system or Polyurethane coatings as topcoat.

Product Information

Mixing Ratio	Component A: Component B = 70:30 (w/w)
Handling & Storage	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.
Packaging	Available in 25 Kg unit pack comprising 17.5 Kg of A & 7.5 Kg of B.
Shelf Life	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.

Technical Characteristics @ 30°C, 55% RH

Property	Method	Result
Pot life, hours, 100 gm sample	ASTM D 2471	1 - 2
Theoretical Consumption, kg / m ² / 2 mm **	IS 101	3.6 - 3.8
Mixed Density, gm / cc	ASTM D 1475	1.27 ± 0.03
Curing time, hours • Foot Traffic, • Vehicle Traffic • Full cure, days	ASTM C 722	18 - 24 40 - 48 7
Compressive Strength, 7 days, N / mm ² (Resin: Extender 90 = 0.61 : 1 by weight)	ASTM C 579	>35
Flexural Strength, 7 days, N / mm ²	ASTM D 790	8 - 10
Shore D Hardness, 7 days	ASTM D 4060	50 - 60
Bond strength to concrete, N/mm ²	ASTM D 4541	>2.0 (concrete failure)

** These figures are theoretical and do not include 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, Kotastone, 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 a 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%

Consumption Information

System	Product	Consumption, kg / m ²
2 mm Primer Epoxy underlay	ShaliFloor SL UL 2ES ShaliFloor SL UL 2ES+ Extender 90 (75%) + Quartz 201 (25%)	0.20 - 0.30 1.33 2.47
3 mm Primer Epoxy underlay	ShaliFloor SL UL 2ES ShaliFloor SL UL 2ES+ Extender 90 (75%)+ Quartz 201 (25%)	0.20 - 0.30 2.00 3.71

*These figures are theoretical and does not account for any additional material required due to surface porosity, surface profile, wastage, etc.

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 UL 2ES**.
- 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 Extender 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) is still tacky using a steel trowel with notches.
- The material once mixed should be used within its specified pot life; the material is poured on to the primed surface and spread evenly to the required thickness with a 'V' notched steel trowel.
- Anchor **ShaliFloor® SL UL 2ES** 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 2ES** to remove entrapped air. Ensure that the spike roller is not applied too long to leave any permanent indentation on surface.
- The rolling should be carried out using a 'back and forth' technique along the same path.

Precautions

- Do not apply **ShaliFloor® SL UL 2ES** 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 2ES** 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 over treated expansion joints. Treat expansion joints with ShaliSeal PS.
- Applicators and operators shall use appropriate personal protection equipment when using this product.

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 Epoxy Thinner only. Do not allow the material to harden.



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



Advisory Cell: +91 81302 81114