ShaliFloor SL TC 2E

2K Epoxy Resin Based Self Leveling Floor Topping

STP Limited

Description

ShaliFloor® SL TC 2E is a solvent free, self-leveling, glossy, potable water compatible, economic, free flow epoxy system in pre-weighed packing for onsite mixing. The finished floor provides joint free, impervious and easy to clean treated surface. Additionally, it has mild heat, acid and alkali resistance.

cftri
Approved

Product Information

Colour & Mixing Ratio	Unpigmented. Any colours available on request. Component A : Component B = 79 : 21 by weight.
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 30 kg composite pack with 23.7 Kg Component A & 6.3 Kg Component 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	ASTM D 2471	1 - 1.5
Solid Content, % • Weight • Volume		 100 100
Curing time, days • Foot Traffic, • Vehicular Traffic • Full cure	ASTM C 722	 1 2 7
Compressive Strength, 7 days, N / mm² (Resin: Extender 90 = 1 : 0.9)	ASTM C 579	40 - 45
Bond strength to concrete, N / mm²	ASTM D 4541	1.5 - 2.0 (Concrete failure)
Shore D Hardness, 7 days	ASTM D 2240	70 - 75
Density, gm / cc • Component A • Component B • Mixed		 1.57 ± 0.02 1.01 ± 0.02 1.42 ± 0.02
Abrasion Resistance, CS 10, 1000 cycles, mg loss	ASTM D 4060	40 - 50
Thermal Resistance, °C ** • Permanent • Occasional		 +50 +100
Chemical Resistance spot, 7 days	ASTM C 722	Resistant to many chemicals. Specific Information available on demand.

**** Occasional (steam cleaning, etc.) temperature duration is 12 hours maximum after full cure. The temperature listed relate to the retention of protective properties. Aesthetic properties may suffer at these temperatures.**

Field of Application

- Engineering and Auto industries
- Seal coat for broadcast systems, such as underground car parks, maintenance hangars and for wet process areas, e.g., beverage and food industry.
- Self-smoothening topping & Roller coat for concrete and cement screeds.
- Clean rooms, Laboratories & Hospitals.

Advantage

- Hygienic seamless floor which is easy to clean.
- Decreased Friction and static charge formation.
- Does not support growth of bacteria and fungus.
- Good resistance to wide range of chemicals.

Application Information

- ✓ **Substrate Temperature** +10°C Min / +35°C Max
- ✓ **Ambient Temperature** +10°C Min / +35°C Max
- ✓ **Substrate Moisture Content** < 4%

Consumption Information

System	Product	Consumption (kg / m^2)***
0.5 mm Primer Self-smoothing top coat	 ShaliPrime® 2E SF ShaliFloor® SL TC 2E	 0.35 - 0.45 0.62 - 0.65
1 mm Primer Self-smoothing top coat	 ShaliPrime® 2E SF ShaliFloor® SL TC 2E + STP Extender 201	 0.35 - 0.45 0.90 0.40
2 mm Primer Self-smoothing top coat	 ShaliPrime® 2E SF ShaliFloor® SL TC 2E + STP Extender 90	 0.35 - 0.45 1.6 1.3

***** 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. Epoxy Pigment paste of 13 - 14% with respect to Component A of any RAL Colour shade to be added additionally for required aesthetic.**

Application Methodology

➢ Surface Preparation

- Prepare the surface by mechanical grinding or other suitable method.
- All previous floor coating if any must be mechanically removed to the maximum extent possible.
- The concrete or screed substrate has to be primed or leveled in order to achieve an even surface.
- High spots must be removed by grinding.
- Remove dust, flakes, oil, grease or other loose foreign particles by sandblasting, iron brush or compressed air.

➢ Material Preparation

- The pre-weighed packs of **ShaliFloor® SL TC 2E** has to be mixed for 2 to 3 minutes using a low-speed electric stirrer (300 - 400 rpm) with a spiral shaped stirrer. The components should be mixed in a suitably sized mixing vessel.
- The Component B is then added to the base and mixed for about 3 to 4 minutes slowly until an even color, texture is obtained.
- Add the Extender slowly into the mixing container, ensure stirring while pouring. Mix for another 2 - 3 minutes till the product is homogeneous.
- Do not dump the extender component all at once. Mix till the material is completely homogeneous. Mix only that much quantity that could be finished in the stipulated pot life. We are not recommending part mixing.

➢ Application of Material

- The concrete surface after proper and thorough surface preparation has to be primed with **ShaliPrime® 2E SF**. It is designed for better adhesion with the substrate and the flooring system. The primer should be mixed in the given proportions supplied.
- Once mixed, the primer should be applied immediately on to the prepared concrete surface. After priming, the surface has to be kept for drying - approximately 6 - 12 hrs.
- Depending on the ambient temperature before, proceed to lay **ShaliFloor® SL TC 2E**.
- 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.

- After spreading, the wet epoxy should be firmly rolled with a spiked nylon roller to help release any entrapped air in the material and assist leveling and removing any tool marks.
- The rolling should be carried out using a 'back and forth' technique along the same path.
- An overlap of 50% with adjacent paths is recommended.

Precautions

- The above information is theoretical and does not allow for any additional material due to surface porosity, surface profile variations in level and wastage etc. It is always recommended to do a field trial prior to large scale application.
- To maintain the appearance of the floor after application, **ShaliFloor® SL TC 2E** must have all spillages removed immediately and must be regularly cleaned using rotary brush, mechanical scrubbers, high pressure washer, wash and vacuum techniques etc. using suitable detergents and waxes.
- 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.
- 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 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

85 Years of Trust

Advisory Cell: +91 81302 81114