

ShaliPrime[®] 2E SF

2K Solvent Free Epoxy Primer for Concrete Surface



Description

ShaliPrime[®] 2E SF is two component transparent, solvent free, epoxy primer, suitable for priming concrete surfaces, including walls, prior to the application of any Epoxy / PU Flooring or coating., epoxy repair Mortar and elastomeric PU Liquid Membrane.

Characteristics

Color and Appearance	Grey, White or Transparent	Pot Life, Minutes • @ 20 °C • @ 27 °C	90 - 120 60 - 70
Theoretical Coverage*, m ² / L	5 - 20	Elongation @ 7 days, %	10 ± 2
Mixing Ratio (v/v)	3 : 1	Volume Solid, %	100
Tensile Strength @ 7 days, MPa	20 ± 5	Recommended DFT, Microns	50 to 200
Moisture Insensitivity	Very Good	Application Temperature, °C	10 – 40
Adhesion to concrete	Excellent	Mix Density @ 27 °C, g/cc	1.20 ± 0.1
Drying time, hrs	10 – 12	Full cure, days	7

* Depending upon surface condition.

Application

- Used as primer on concrete surface prior to the application of base coat / floor toppings like ShaliFloor 3 ES, ShaliFix EM, ShaliFloor SL TC 3 PU.
- In Traffic deck system for heavy duty traffic.
- Ramps / car parks / parking bays / pedestrian walkways / roof decks.
- Industrial floors, cold stores / warehouses / factories and hangars
- Laboratories / hospitals / food and beverage plants / kitchens, high tech manufacturing facilities / dairies,

Advantages

- Material is 100 % solid and is Solvent Free.
- Facilitates better bonding. of Epoxy Floor Topping, Epoxy Screed and Epoxy Mortars with the substrate.
- Prevents air release from the porous substrate, which may otherwise cause bubbles in the final epoxy topping later.
- Seals porous surface to give quality finish.

Application Methodology

➤ Surface Preparation

- Prepare the surface by mechanical grinding or other suitable method using SSPC SP13 / NACE NO 6 / ASTM D4258 -05 / ACI 503.6R- 97 / SSPC-TR 5 / ICRI Technical Guideline 03741 / NACE02203.
- Remove dust, flakes, oil, grease or other loose foreign particles by sand blasting, iron brush or compressed air. Remove old painting using surface grinder.
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- For best bond, concrete surface must be slightly textured.
- Allow it to dry before priming.
- Ensure that concrete must be cured at least 28 days and moisture content is below 5%.

➤ Material Preparation

- Stir entire Component A thoroughly by using speed drill mixer with a spiral type blade at the bottom of stirrer rod till homogeneous mix is obtained.

- Add entire Component B in Component A. Both Component A & B comes in factory pre-weighed quantity in the ratios of 3 : 1 by volume.
- Mix to obtain a homogenous material.
- Wait for 5 minutes to ensure escape of entrapped air.

➤ Application of Material

- Ensure that the substrate temperature is minimum 10 °C and at least 3 °C above the dew point of the air, measured near substrate
- Ensure that the moisture content in the substrate should not exceed 4 % (by weight).
- Apply **ShaliPrime® 2E SF** by brush / roller on prepared surface.
- On porous surface **ShaliPrime® 2E SF** will be absorbed very quickly, leaving characteristic light colored dry patches. In such cases it is recommended that a second priming coat be applied on these dry areas. This not only helps to ensure good adhesion but also prevents air release from the porous substrate which may cause bubbles in the final epoxy topping later.
- Ensure that **ShaliPrime® 2E SF** is allowed to dry for 6 - 8 hours or left overnight for drying for subsequent coating.
- Ensure that the coating is not exposed to oil, chemicals or mechanical stress until fully cured.

Limitations

- Do not apply **ShaliPrime® 2E SF** on surfaces known to, or likely to, suffer from rising dampness, potential osmosis problems or having relative humidity greater than 75 %.
- Do not apply **ShaliPrime® 2E SF** to asphalt, weak or infirm concrete, unmodified sand / cement screeds, PVC tiles or sheets, or substrates known to move substantially e.g. steel walkways.

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 4 L unit pack consist of Comp. A – 3 L and Comp B - 1 L.

Storage

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

Shelf Life

12 months in original unopened sealed condition.



STP Limited
Enhancing Structures' Life

Product Range

- Waterproofing and Insulation ■ Road Surfacing
- Sealants and Additives ■ Pipeline Coating
- Protective / Anti-Corrosive Coating ■ Epoxy Flooring
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