

# ShaliProtek® 2E HB SF

2K High Build Solvent Free Epoxy Coating



STP Limited

## Description

**ShaliProtek® 2E HB SF** (formerly known as ShaliPoxy 2HB SF) is two component pigmented Epoxy Protective Coating.

**ShaliProtek® 2E HB SF** is unique in its simplicity of application resulting in a smooth, non-porous, hygienic, chemically resistant coating. In case of any RAL colour is desired, pigment in paste form of desired RAL colour can be provided by us along with base material.

**ShaliProtek® 2E HB SF** conforms to 21 CFR 175-300 of US FDA test method.

## Characteristics

Compressive Strength, N/mm <sup>2</sup>	30	Adhesion to Concrete, mm <sup>2</sup>	1.5
Water Absorption @ 27 °C, 24 hrs,%	0.20	Flexural Strength, N / mm <sup>2</sup>	15
Volume solid, %	99 ± 1	Density, gm / cc	140 ± 0.05
DFT*, Micron	250 ± 50	Dry time, 30 °C	
Overcoating, Dry, hrs		• Touch dry, hrs	2 – 3
• Minimum	8	• Hard dry, hrs	24
• Maximum	24	• Full Cure, days	7
Heat resistance, °C		Adhesion, Mpa	> 8
• Continuous (Dry)	80	Curing time in days	
• Occasional (Dry)	120	• Foot traffic	01
• Immersion	50	• For full traffic	5 – 6
Theoretical Coverage, m <sup>2</sup> / kg / coat *	2.5	Pot life @ 30 °C, Minutes	40

\* Depending upon surface condition.

## Chemical Resistance

**ShaliProtek® 2E HB SF** is resistant to a variety of chemicals as given below

Acetic Acid	10%	Nitric Acid	10%
Ammonium Hydroxide	25%	Sulphuric Acid	10%
Caustic Soda	50%	Hydrochloric Acid	30%
Critic Acid	10%		

## Application

- **ShaliProtek® 2E HB SF** is resistant to fungal & bacterial growth & is ideally suitable for areas requiring hygienic, dust free and wear-resistant surface. It is recommended for the following areas:
- Potable water pipeline inside coating.
- Irrigation pipeline inside coating.
- For Structural Protective Coating in
  - Aerospace industry / Airport hangers for structural coating.
  - Nuclear plants.
  - Dairies & breweries
  - Chemical / Pharmaceuticals / Food processing / bottling plant for structural coating.
  - Electric / Electronics industries.
  - Laboratories.

## Advantage

- Easy to apply.
- Excellent bond to concrete / metal.
- Good resistance to chemicals / abrasion.

## 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 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

- Mix **ShaliProtek® 2E HB SF** component A (Resin) & B (Hardener) thoroughly by using speed drill mixer with a spiral type blade at the bottom of stirrer rod. The speed may be 300 - 400 rpm till homogeneous mix is obtained.
- Then add component B (Hardener) slowly, ensuring complete dispersion.
- After stirring, wait for 5 minutes to ensure escape of entrapped air.

### ➤ Application of Material

- Prime concrete surface with ShaliPrime 2E.
- Allow it to dry for 6 – 8 hrs till it is touch dry.
- Apply **ShaliProtek® 2E HB SF** by brush / roller on primed surface.

## Colour range

In case of any RAL colour is desired, pigment in paste form of desired RAL colour can be provided by us along with base material, **ShaliProtek® 2E HB SF**.

While every effort is made in production to maintain the consistency of colour, some variation may be expected from batch to batch.

## Cleaning & Maintenance

- Clean all tools immediately after use with STP Thinner. Do not allow the material to harden.

## Health & Safety

Avoid contact with skin / eyes and avoid swallowing.

Ensure adequate ventilation and avoid inhalation of vapor.

Wear suitable protective clothing, gloves and eye protection

In case of contact with skin, 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 immediately with plenty of clean water and seek medical advice.

If swallowed seek medical attention immediately. Do not induce vomiting.

## Packing

Available in 16 kg carton (4 kg tin x 4 nos) consisting of Component A & B.

## Storage

Keep in a cool and dry place, under shed, away from heat & direct sunlight.

## Shelf Life

12 months in original unopened sealed conditions.



**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**