

ShaliProtek® 2E 150

2K Anti-Corrosive Protective Epoxy Coating



STP Limited

Description

ShaliProtek® 2E 150 is a two-component, cold cure, high build, epoxy-based anti-corrosive / protective coating to protect steel / concrete structures / timber and other construction materials in corrosive environment.

ShaliProtek® 2E 150 can be applied directly to the prepared metal surface or over the recommended primed surface.

ShaliProtek® 2E 150 has excellent abrasion resistant coating system.



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Approved

Characteristics

Application	Brush / Roller / Spray	Solid Content, %, by volume	76 ± 2
Colour	Grey	Flash point, °C	32
Theoretical coverage*, m ² / L	5 - 8	Chemical resistant	Good
Application temperature, °C		High temperature resistance (Dry), °C	
• Minimum	10	• Continuous	70 – 80
• Maximum	40	• Occasional	120
Drying time, 30 °C		Low temperature resistance, °C	
• Touch dry, hrs	3 – 4	• Continuous	- 5
• Hard dry, hrs	7 – 8	• Occasional	- 15
• Full cure, day	7		
• Overcoat	Overnight		
Salt spray, 300 hrs @ 150 Micron DFT	Pass	Specific Gravity, Mix, 30 °C	1.35 ± 0.03
Recommended DFT per coat, Micron	100 - 150	Pot life, hrs, 30 °C	1.20
Mixing ratio, by volume	3: 1	Hardness Shore D	60 ± 5
		Adhesion, MPa	> 5

* Depending upon surface condition.

Application

- Metal & Steel structure.
- Pipeline internal coating for water line.
- Sheet & pipe piling.
- Dams, Barrage gates, Penstocks.
- Crude oil storage tanks.
- Foundation walls and sumps.
- Concrete and Steel surfaces in sewage treatment plant.
- Paper Mills.
- Chemical Plants.
- Underground structures.

Advantages

- Flexible anti-corrosive / preventive coating for structures – MS or concrete – even where the structure is in continuous contact with water.
- Provides excellent resistance to impact, thermal shock and abrasion.
- Cures to a hard, smooth and flexible surface with excellent resistance to sea / salt water, oil, acids, alkalis, crude oil and minerals.

Application Methodology

➤ Surface Preparation

- Remove dust, flakes, oil, grease or other foreign particles by jet or dry air and clean the surface to make it smooth before applying ShaliProtek® 2E 150.
- Surface of steel must be prepared as per the NACE (National Association of Corrosion Engineers) or SSPC (The Society for Protective Coatings) guidelines.
- Ensure that new concrete must be at least 28 days old.

➤ Material Preparation

- Add whole of Component B into Component A, which are pre-weighted in the ratio 3: 1 by volume and mix thoroughly for 5 minutes until homogenous mix is achieved. Use slow speed drill (400 – 500 rpm) fitted with a suitable mixing paddle.
- Allow the combined mix to sit for an induction time of 5 minutes. Stir again gently with a hand stirrer to ensure uniformity before application

➤ Application of Material

- Prime the surface with ShaliPrime® Zn Ph 60 over metal surface whereas ShaliPrime® 2E in case of concrete surface
- Allow it to dry.
- Apply ShaliProtek® 2E 150 by brush / roller / airless spray direct to metal or prime surface
- Allow it to dry for 3 – 4 hrs
- Apply second coat of ShaliProtek® 2E 150 after 12 hrs, if required to get higher DFT.
- In case of airless spray, use standard equipment having tip size of 0.59 – 1.00 mm and tip pressure 210 - 250 kg / cm².

Cleaning & Maintenance

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

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 combo pack of 20 L consisting of 15 L Comp A and 5 L Comp B.

Storage

Keep in cool and 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
- Grouts / Admixtures ■ RestoFix- Repair / Rehabilitation
- Other Construction Chemicals



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