

ShaliProtek® 2E AL

2K Hi-Build Protective Epoxy Aluminium Finish Coating



STP Limited

Description

ShaliProtek® 2E AL is a two-component, cold cure epoxy aluminium-based coating, filled with special type of aluminium pigment to protect steel, concrete structures and other construction materials in corrosive environment.

ShaliProtek® 2E AL is a high build paint used as top coat and has excellent resistance to abrasion, sea water and various oil.

Characteristics

Application	Brush / Roller / Spray	Solid Content, %, by volume	75 ± 2
Colour	Silver Finish	Flash point, °C	>30
Theoretical coverage*, m ² / L	3.5 - 5	Mixing ratio	2 : 1
High temperature resistance, (Dry) OC		Low temperature resistance, OC	
• Continuous	70 – 80	• Continuous	-5
• Occasional	90	• Occasional	-15
Drying time, 30 OC		Application temperature, °C	
• Touch dry, minutes	45	• Minimum	10
• Hard Dry, hrs	7 – 8	• Maximum	40
• Full Cure, day	7	Specific Gravity, 30 °C	1.40 ± 0.05
• Overcoat, hrs	12 - 72	Pot life, hrs, 30 °C	1
Recommended DFT, Micron	150 - 200	Salt spray, 300 hrs, @ 150	Pass
Adhesion to Steel, MPa	> 6	Micron DFT	
Chemical resistant	Good	Hardness Shore D	65 ± 5

* Depending upon Surface Condition.

Application

- Metal & Steel structure.
- Water ballast tank.
- Sheet & pipe piling.
- Dams, Barrage gates, Penstocks.
- Crude oil storage tanks.
- Concrete and Steel surfaces.
- Railway/any type of bridges.

Advantages

- Anti-corrosive 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 AL**.

- Surface of steel must be prepared as per the NACE or SSPC guidelines to achieve preferably a profile of Sa 2½ (ISO 8501-1: 2007).
- 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 and mix thoroughly for 5 minutes until homogenous mix is achieved. Use slow speed drill fitted with a suitable mixing paddle.
- Allow the combined mix for an induction time of 5 minutes to ensure escape of entrapped air.
- 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.
- Allow it to touch dry condition.
- Apply **ShaliProtek® 2E AL** by brush / roller / spray on the primed surface.
- Allow it to dry for 2 – 3 hrs
- Apply second coat of **ShaliProtek® 2E AL** after 12 hrs, if required to get higher DFT.
- In case of airless spray, use standard equipment having tip size of 0.59 – 0.89 mm and tip pressure 210 - 250 kg / cm².

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 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 15 L consisting of 10 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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