

ShaliProtek® 2E PA 120

2K Protective Polyamide Based Flexible Epoxy Coating



STP Limited

Description

ShaliProtek® 2E PA 120 (formerly known as ShaliPoxy HB) is a two components cold cure epoxy polyamide coating to protect steel, concrete structures, timber and other construction materials in corrosive environment. **ShaliProtek® 2E PA 120** has excellent abrasion resistant coating system.

Characteristics

Application	Brush / Roller / Spray	Colour	As per Colour Shed
Solid % by volume	80 ± 5	Recommended DFT, micron	120 - 150
Theoretical Coverage*, m ² / L	5 - 7	Pot Life, hrs, 30 °C	1
Application Temp. °C		Drying Time, 30 °C	
• Minimum	10	• Touch, hrs	3 - 4
• Maximum	40	• Handle, hrs, minimum	7 - 8
Flexibility	Moderate	• Full Cure, days maximum	7
Flash Point, °C	28	• Overcoat, hrs	Overnight
Low Temperature Resistance, °C		Temperature Resistance, (Dry) °C	80
• Continuous	-5	Adhesion pull off, Mpa mg	> 7
• Occasional	-15	Salt Spray, 300 hrs, @ 150	Pass
Specific Gravity, Mix, 30 °C	1.45 ± 0.05	Micron DFT	
Mixing ratio, by volume	3 : 1	Hardness (Shore D)	70 ± 5
Chemical Resistance	Good		

* Depending upon surface condition.

Application

- Metal & Steel structure.
- 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, or other foreign particles by jet or dry air and clean the surface mechanically or by grinding to make it smooth before application.
- In case of new concrete, ensure the concrete is at least 28 days old.
- Ensure the ambient temperature is not less than 10 °C and not more than 40 °C at the time of coating.

➤ **Material Preparation**

- Stir drums of each component thoroughly for uniformity. Then mix component A and component B in the ratio of 3 : 1 by volume and stir for homogeneity. For best result, use a variable speed drill mixer with a spiral type blade at the bottom of stirrer rod. The speed may be 400-600 rpm.
- Place the spiral blade at the bottom of the container before starting the mixer. This will help avoiding inducting air into the mass. Slowly move the stirrer head up to the surface while stirring. Do not remove the blade while still it is spinning. This procedure is continued for 5 minutes up and down to have a homogeneous mixing. Allow the combined mix to sit for an induction time of 20 minutes. Stir again gently with a hand stirrer to ensure uniformity before application.

➤ **Application of Material**

- Prime surface with ShaliPrime Zn Ph.
- Apply **ShaliProtek® 2E PA 120** by brush / roller / spray on prepared surface.
- Allow it to dry.
- The second coat should be applied as per technical data.
- Wipe first coat with MIBK and wipe dry with cloth before second coat if first coat is dried over 24 hrs or it may also be applied directly. For airless spray, use standard equipment having tip size of 0.48 - 0.88 mm and tip pressure 110 – 160 kg / cm².
- For best results, apply two coats of **ShaliProtek® 2E PA 120** by brush / roller / spray.

Cleaning

Clean all tools immediately after use with **STP Thinner**. Do not allow 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 20 L - 15 L Comp A and 5 L Comp B.

Storage

Keep in cool and dry place, under shed, away from heat.



STP Limited
Enhancing Structures' Life

Product Range

- Waterproofing and Insulation
- Sealants and Additives
- Protective / Anti-Corrosive Coating
- Grouts / Admixtures
- Other Construction Chemicals
- Road Surfacing
- Pipeline Coating
- Epoxy Flooring
- RestoFix- Repair / Rehabilitation



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