

ShaliPoxy[®] GF

2K High Solid Glass Flake Epoxy



STP Limited

Description

ShaliPoxy[®] GF is a two component, glass flakes reinforced epoxy coating having excellent abrasion / chemical resistance and high barrier properties. It can be used as abrasion resistant coating above and below water vessel areas subject to corrosion. **ShaliPoxy[®] GF** is suitable for use in marine environments as protective coating from acids, alkalis, solvents and salts.

ShaliPoxy[®] GF has good application characteristic with excellent corrosion and chemical resistance. **ShaliPoxy[®] GF** is designed for application in a single high build coat by plural feed airless spray gun.

Characteristic – Physical

Color **	Grey, Light Reddish	Theoretical Coverage *, m ² / L, 400 micron DFT	2.5
Drying time, @ 27 °C,55%RH <ul style="list-style-type: none">• Touch dry• Hard Dry• Full Cure	2 – 3 hr 12 hr 7 days	Ratio by volume **	2 : 1
		Volume Solids, %	100
		Specific Gravity (Mixed) @ 27 °C	1.18 ± 0.02
Recommended DFT, micron	350 - 400	Scratch Resistance @ 7 Days	No Failure up to 4 kg Load
Application Temperature °C	> 7	Surrounding Humidity, %	< 85

* Depending upon surface condition ** Mixing ratio and color can be changed as per customer requirement

Characteristic - Technical

Hardness (Shore D)	ASTM D 2240	75 - 80
Taber Abrasion @ 7 Days, mg loss	ASTM D 4060	< 30
Pot Life @ 27°C,55%RH,100g, minutes	ASTM D 2471	25 ± 10

Chemical Resistance

10% Nitric Acid	Good
10% Sulfuric Acid	Excellent
50% Sulfuric Acid	Excellent
10% Sodium Hydroxide	Excellent

Application

- Splash zone.
- Jetty pilings and working decks.
- Use as internal lining for crude oil, fuel oil and storage tanks.
- Boat bumpers and landings.

Advantages

- Excellent abrasion resistance.
- Excellent acid-alkali resistance.
- Excellent solvent resistance.
- Enhanced barrier properties.
- Good physical strength.

Application Methodology

➤ Surface Preparation

- Remove all loose gravel, dirt, oil, grease or other loose foreign particles by sand blasting / iron brush / compressed air.
- Prepare surface by mechanical grinding, shot blasting conforming to SA2½..

➤ Material Preparation

- Stir drums of each component thoroughly for uniformity. For best result, use a variable speed drill mixer with a spiral type blade at the bottom of stirrer rod.
- Pre heat Part- A @ 50 - 70 °C and Part-B @ 50 - 60 °C.

➤ Application of Material

- Apply **ShaliPoxy® GF** by plural feed airless spray gun to the required thickness on the prepared substrate.
- The tip pressure typically should be 2500-4000 psi (the tip pressure should be adjusted to achieve good atomization of the spray) with minimum 45:1 pump ratio or above.
- Tip size typically should be 25 - 30 Thou orifice.
- For single feed airless spray gun, add component B to component A (without heating of each component), stir well for uniformity with drill mixer, wait for 2-5 minutes and then apply. For single feed airless spray application thinning of the material with **STP Thinner** may be required as per machine pump ratio to get best atomization of the spray. The tip size should be between 25-35 Thou orifice.

Cleaning

- Clean all tools immediately after use with STP Thinner.

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

The material is available in 200 liter and 15 liter (For single feed spray application) pack.

Storage

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

Shelf Life

12 months from the date of manufacture when maintain in protected storage in original unopened sealed condition at 5 - 38 °C.



Advisory Cell
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Repairs & Rehabilitation
Epoxy Flooring

