

ShaliPoxy® Potting Compound

2K Solvent Free Epoxy Based Insulation Compound



STP Limited
Enhancing Structures' Life

Description

ShaliPoxy® Potting Compound is a two component solvent free epoxy based potting and encapsulating compound. The material has a medium mixed viscosity and density. The material shows excellent moisture resistance, high electrical insulation and mechanical properties.

Characteristics- Physical

Appearance • Component A • Component B	Viscous Grey/Black Light Viscous Brown	Viscosity @ 25 °C, cPs • Component A • Component B	5000 ± 1000 2000 ± 1000
Specific Gravity • Component A • Component B	1.65 ± 0.05 1.00 ± 0.02	Mix Viscosity @ 25 °C, cPs	3000 ± 1000
		Curing Time @ 25 °C, hr	5 ± 1
		Full Cure, @ 25 °C, days	7 - 14
Mix Specific Gravity	1.40 ± 0.05	Service temperature, °C	-40 to +225
Pot Life, @5 °C, 100 gm, minute	45 ± 10	Application Temperature, °C	10 – 85
		Mixing Ratio, w/w	4 : 1

Characteristics- Technical

Parameters	Method	Result
Shore D Hardness *	ASTM D2240	80 ± 10
Tensile strength (MPa)	ASTM D412	> 12
Elongation (%)	ASTM D412	> 20
Water absorption 30 days @ 25 °C, %	ASTM D471	< 0.5
Dielectric Strength for 3 mm film thickness	ASTM D149	>17 KV / mm
Volume resistivity (ohm-cm)	IEC 93	> 10 ¹⁴
Compressive Strength, MPa	ASTM C 109	> 50
Operating temperature range, °C	In house	- 40 to 230

* When cured at room temperature, full hardness and final properties are achieved in 7 - 14 days.

Application

- Encapsulation of electronic and electrical components.
- Sealing and potting of electronic and electrical components.

Advantages

- Good mechanical strength
- Medium viscosity
- Excellent moisture resistance
- VOC Free

Application Methodology

➤ Surface Preparation

- Clean the surface from dust, oil, grease, loose particles other contaminants thoroughly before application of the material by STP Thinner and dry hot air.

➤ Material Preparation

- Stir Component A (Resin) prior to mixing with Component B (Hardener) by a slow speed mixture (approx. 400 rpm) at least for five minutes to ensure any settlement of fillers.
- Mix whole of Component B (Hardener) into Component A (Resin) and stir with a slow speed mixture (approx. 400 rpm) to ensure homogenous mix.
- After stirring, wait for the product to settle in order to let entrapped air escape.

➤ Application of Material

- Pour **ShaliPoxy® Potting Compound** for sealing joint.
- Strictly avoid Water contamination.

Cleaning

Clean all tools immediately 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 5 kg unit pack comprising of 4 kg Component A and 1 kg Component B.

Storage

Store in a cool dry place in sealed containers under shed, away from heat. Care must be taken to avoid leakage, spillage and contamination.

Shelf Life

12 months in original unopened sealed conditions.



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Product Range

- Waterproofing & Insulation ■ Road Surfacing
- Sealants & Adhesives ■ Pipeline Coatings
- Protective/Anti-Corrosion Coatings ■ Epoxy and Flooring
- Grouts and Admixtures (GARA)
- RestoFix - Repair/Rehabilitation ■ Other Construction Chemicals



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