

ShaliPoxy 400

Two Component High Solid Food Grade Epoxy Coating



STP Limited

Description

ShaliPoxy 400 is WRAS Approved Food Grade Epoxy Coating for internal coating of pipes, vessels and other equipments used for portable water. It conforms to BS 6920:2000 and AWWA C 210.



Characteristics

Material Property	Result	Testing Method
Color	Dark Brown / Light Yellow / White	NA
Ratio	3:1 By Volume	NA
Pot Life @ 28 °C, 55% RH, 100 g	22 ± 3 min	In House
Touch Dry @ 27 °C, 55% RH, hr	Within 1 hr	In House
Hard Dry @ 27 °C, 55% RH, hr	6-8 hours	In House
Full Cure @ 27 °C, 55% RH, days	7	In House
Volume Solids	~ 100 %	In House
Specific Gravity (Mixed) @ 27 °C	1.49 ± 0.02	In House
Film Thickness, micron	415 ± 15	SSPC- PA 2
Compressive Strength (MPa)	70	ASTM C 109
Theoretical Coverage, m ² / L	2.32	In House
Hardness (Shore D), minute	80 - 85	ASTM D 2240
Adhesion to Steel (psi)	> 2000	ASTM D 4541
Long term contact with potable water for human consumption	No Effect	NSF/ANSI-61
Application Temperature, °C	10 – 60 with RH ~ < 75%	NA
Scratch Resistance,	No failure at 1.5 kg load	IS:101

Application

- Internal coating for potable water pipelines.
- Internal coating for potable water storage.

Advantages

- Excellent food grade properties
- Excellent adhesion to the surface corrosion, protection properties.
- Good temperature / abrasion resistance properties.

Application Methodology

- Prepare surface by mechanical grinding, shot blasting conforming to SA2½.
- Remove dust, flakes, oil, grease or other loose foreign particles by sand blasting, iron brush or compressed air.
- 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. The speed may be 400-600 rpm. Pre heat part-A @ 50-65 °C and Part-B @ 25-40 °C.
- Apply **ShaliPoxy 400** by plural feed airless spray gun to the required thickness on the substrate.
- The tip pressure typically 2500-4000 psi (the tip pressure should be adjusted to achieve good atomization of the spray).
- Tip size typically 19-25 Thou orifice.
- The coating repair should be done by brush application with the same material provided the mixing quantity of Component A and component B should be done as per requirement of the repairing job because of the lower pot life of the material. Mixing will be done in a drill type mixer. For repairing job, heating of individual component is not required.

Cleaning & Maintenance

Clean all tools immediately after use with STP cleaner.

Health & Safety

- Use mask, nose cover and hand gloves during application.
- Clean hands with soap water after application.
- Avoid contact with skin / eyes. In case of unlikely contact with eyes, rinse immediately with plenty of clean water, then cleanse with soap and lukewarm water and seek medical advice. Do not use solvent to clean the contacted area.
- Prevent swallowing. In case of unlikely swallowing, seek medical attention immediately. **Do not** induce vomiting.

Packing

Available in 200 L – 150 L Comp A and 50 L Comp B.

Storage

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

Shelf Life

1 year in original unopened sealed condition.



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