ShaliPoxy® CTE 406

2K High Build Solvent Free Modified Epoxy Coating

STP Limited

Description

ShaliPoxy® CTE 406 (formerly known as ShaliPoxy CTE 403) is two component, 100% solid, fast setting, spray applied, solvent free, modified epoxy coating for internal / external lining of steel / concrete surface of pipes, vessels and other equipments used for water, mild chemical, oil and lubricant spillage.

ShaliPoxy® CTE 406 is spray applied by plural component airless spray gun.

ShaliPoxy® CTE 406 is solvent free protective barrier and is ideally suited for direct to metal coat where higher film thickness is required.

It conforms to AWWA C-210, SSPC Paint 16 and Corp of Engineers C 200 / C 200a.

Characteristics – Physical

Color	Brownish Black Glossy smooth	Ratio, volume	3:1
		Sagging Test up to 420 micron DFT in single coat	Passes
		Cross-cut test	Passes
Pot Life @ 28 OC,55% RH,100 g, minute	30 ± 3	Volume Solids	100 %
Specific Gravity (Mixed) @ 27 ^{O}C	1.40 ± 0.05	Drying time @ 27 OC, 55% RH • Touch Dry • Hard Dry • Full Cure	Within 2 hr 8 – 10 hr 7 days
Theoretical Coverage *, m^2 / L	2.50 406 Micron		
Application Temperature, ^{O}C	10 – 60 with RH < 75%		

*** Depending upon surface condition**

Characteristics - Technical

Property	Method	Result
Tensile strength, MPa	ASTM D-638	15 ± 3
Abrasion Resistance, 1000 cycle	ASTM D-4060	< 50 mg
Adhesion pull-off, MPa • On concrete • On Steel	ASTM D-4541	 > 3 > 10
Elongation, %	ASTM D-638	10 ± 1
Water vapor transmission, 24 hrs, grm / m2	ASTM E-96	0.10
Hardness Shore D, minute	ASTM D-2240	85 ± 5
Immersion test, 30 days • DIW • 1% H_2SO_4 • 1% NaOH	AWWA C-210	No blistering / peeling / disbanding
Scratch Resistance, 1.5 kg load	IS:101	No failure
Compressive Strength (MPa)	ASTM C 109	70 ± 5
Salt spray test, 5000 hr	ASTM B 117	Passes

Application

- Excellent coating for internal / external lining of pipelines where abrasion / chemical resistance is of major concern.

- Costal environment.
- Pulp & Paper industry.
- Excellent coating for internal / external linings of water pipelines.
- Internal coating for concrete / steel water storage.
- Sea water intake tunnels.

Advantages

- Solvent free, fast setting, high build-up epoxy.
- Excellent film build capabilities exceeding 400 micron in single coat, which can be extended with multiple passes.
- Excellent chemical / abrasion resistance properties.
- Very low permeability.

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 Component A 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 Component A @ 60 - 75 ^{O}C and Component B @ 50 - 60 ^{O}C.

➢ Application of Material

- Apply **ShaliPoxy® CTE 406** 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).
- Tip size typically should be 27 - 35 Thou orifice.

Cleaning & Maintenance

Clean all tools immediately after use with STP cleaner.

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 200 L drum with 1 drum of Component B for every 3 drums of Component A.

Storage

Store in a cool dry place, under shade, 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

85 Years of Trust

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