

STERLING TechnoCoat® Coropox-2C

High Build Chemical Resistant Coal Tar Epoxy Resin Coating

Description:

TechnoCoat® Coropox-2C is a two-component solvent free high build coal tar epoxy resin coating that can be applied as a single or two-coat system. TechnoCoat® Coropox-2C is designed with the combination of high build polyamide epoxy resin with tar, giving excellent adhesion and chemical resistance together with the flexibility and superior water resistance of tar-based materials.

Application:

- MS / concrete pipes and metallic structures.
- Crude oil storage tanks, underground structures & other metal & steel structures & pipes.
- Sheet & pipe piling.
- Dams, Reservoirs, Barrage gates, Penstocks.
- Foundation walls and sumps.
- Concrete and Steel surfaces in sewage treatment plant.
- Paper Mills & Chemical Plants, storage tanks, bridges and many other aggressive industrial applications.

Features & Benefits:

- Excellent resistance to water, seawater, wastewater, alkaline water and acidic water.
- Good impact resistance.
- Excellent flexibility, hardness and adhesion.
- Excellent abrasion resistance.
- High build up to 600 microns WFT in one coat.
- Can be used with cathodic protection systems.
- Can be brush or spray applied.

Typical Properties at 25°C:

Property	Method	Result
Wet Film Thickness, micron	ASTM D 4414	400
Elongation, %	ASTM D 638	28
Tensile Strength, MPa	ASTM D 638	3.94
Hardness, Shore A	ASTM D 2240	75 ± 5
Specific Gravity, Mix, 30 °C	ASTM D 1457	1.50 ± 0.05
Flash Point, °C	ASTM D93	>30
Pot Life, hrs, 30 °C	ASTM D 2471	4
Adhesion pull-off, MPa	ASTM D 4541	8 ± 0.5
Resistance to Micro-organisms	ASTM G 21	Passes
Flexibility	ASTM D 522	Good
Weather-ability, 1000 Hrs. QUV	ASTM G154	Good
Immersion test, 30 days	AWWA C-210	No blistering / peeling / disbanding
• DIW		
• 1% H ₂ SO ₄ • 1% NaOH		
Salt Spray, 1000 hrs, @ 300 micron DFT	ASTM B 117	Excellent
Water Resistance, Immersion- 7 days	ASTM D 870	Passes
Abrasion Resistance 1000 CIs CS 10 , mg	ASTM D 4060	112
Dielectric strength, V/mil	AWWA C 210	>250
Cathodic disbandment, 30 days, mm	AWWA C 210	<10

Temperature	Curing Schedule			Full Cure, Days
	Touch Dry, hr	Recoat		
		Minimum	Maximum	
10 °C (50 °F)	10	12	30	15
30 °C (86 °F)	4	8	30	7
50 °C (122 °F)	1	3	24	3

Colour	Black / Semi-gloss	Application	By Brush / Roller / Airless Spray
Theoretical Coverage gms/ m ² *	400gms/sqm	Solid % by volume	75 ± 5
Chemical / corrosion / abrasion	Excellent	Usable temperature, °C	Up to 75
		Mixing ratio, by volume	3 : 1

Applications Instructions:

Substrate Preparation

Proper surface preparation is the key to any successful repair application using TechnoCoat® Coropox 2C. Prepare the surface by mechanical grinding or other suitable method. Remove dust, flakes, oil, grease or other loose foreign particles by sand blasting, iron brush or compressed air. 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 50°C at the time of coating.

Mixing

Stir drums of each component of TechnoCoat® Coropox-2C thoroughly to a homogenous and uniform mix a slow speed mixture (approx.400rpm) fitted with a suitable mixing paddle. Ensure that there is no entrapped air. Then mix the entire component A and component B, which are pre-weighed. After stirring, wait for the product to settle in order to let entrapped air escape.

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.

Coverage:

400gms/sqm in 2 coats. It may vary as per the actual site requirements.

Application Procedure:

- Prime surface with TechnoCoat® ZR Special.
- Allow minimum 4 hrs to dry the primer. Apply first coat of TechnoCoat®Coropox-2C on the prepared surface by brush / roller / spray.
- Allow it to touch dry for 4 hrs. If required, apply second coat of TechnoCoat® Coropox-2C as above as per the technical data.
- In case of airless spray, use standard equipment having tip size of 0.48 - 0.88 mm and tip pressure 110 – 160 kg / cm²

Packaging:

TechnoCoat® Coropox-2C is supplied in 20 kg premeasured packaged composite packs. Packaging size may vary subject to local regulations and requirements.

Shelf Life & Storage:

24 months from date of production if kept in undamaged and unopened original sealed containers and store at protected area from direct sunshine in dry and cool condition at temperatures between 10°C-30°C.

Technical Support:

Sterling Technotrade offers a comprehensive technical support service to specifiers, end users and contractors. It is also able to offer onsite technical assistance and dedicated specification assistance for the specific projects and locations.

Cleaning:

Tools and equipments should be cleaned within the pot life of the grout with TechnoFix® Eco Cleaner. Cured material can only be removed mechanically.

Health and Safety instructions:

Some people are sensitive to resins so gloves and a barrier cream should be used when handling TechnoCoat® Coropox-2C. If contact with the resin occurs, it must be removed, before it hardens, with a resin removing cream. Follow by washing with soap and water. Do not use solvent. The use of goggles is recommended but should accidental eye contamination occur, wash thoroughly with plenty of water and seek medical treatment immediately.

Ensure adequate ventilation in volume and pattern in working area and do not smoke during use. Consider property in proximity of the application area to prevent loss or damage. Protect your jobsite from unauthorized persons. Store all materials and equipment safely and out of reach of children and animals. Observe container labels, SDS, applicable laws and regulations and all instructions before using the product and equipment.

*Further protection: emergency showers and eyewash stations. Get immediate medical attention as needed. Product only for professional use.

Additional Information: Techno Builders Solutions® By Sterling Technotrade India Pvt.Ltd -The Specialist Construction Chemicals Company® range of associated products includes high performance concrete Admixtures, Adhesives, Protective Coatings, Concrete Repairs, Industrial Flooring, Grouts & Anchors, Joint Sealants, Surface Treatments, curing compounds, repair mortars, release agents, Grinding Aids & Waterproofing.

*Separate datasheet are available on these products.

Disclaimer: The product information & application details given by the company & its agents has been provided in good faith & meant to serve only as a general guideline during usage. Users are advised to carry out tests & take trials to ensure on the suitability of products meeting their requirement prior to full scale usage of our products. Since the correct identification of the problems, quality of other materials used and the on-site workmanship are factors beyond our control, there are no expressed or implied guarantee / warranty as to the results obtained. The company does not assume any liability or consequential damage for unsatisfactory results, arising from the use of our products.

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