

PRODUCT DATA SHEET

PROTAL™ 600 CTE

High Build Coal Tar Epoxy

Description

Protal 600 CTE is a two-part high build coal tar epoxy, that can applied as a single or two-coat system. It is a polyamide with excellent abrasion and chemical resistance.

Uses

For long-term corrosion protection of steel and concrete substrates against water, wastewater, seawater, alkaline water and acidic water corrosion. Designed to coat steel piles, sheet piles, lock gates, reservoirs, non-potable water pipelines, treatment / storage tanks, bridges and many other aggressive industrial applications.

Features

- Excellent resistance to water, seawater, wastewater, alkaline water and acidic water
- Good impact resistance
- Excellent flexibility, hardness and adhesion
- Excellent abrasion resistance
- No primer required
- High build up to 26 mils WFT in one coat
- Can be used with cathodic protection systems
- Exceeds Corp of Engineers C-200, C200a
- Exceeds AWWA C-210 for exterior
- Can be brush or spray applied

Application

Steel: All contaminants shall be removed from the steel surface to be coated. Remove oil, dust, and grease and other contaminants that could interfere with adhesion of the coating. Surfaces shall be free from projections, sharp edges, high points and fillets must be ground smooth including all corners. For immersion service, prepare surfaces by grit blasting to a clean near-white finish, SSPC-SP 10 or NACE No. 2. For non-immersion service, use prepare surfaces using SSPC-SPC6 or NACE No.3. Appropriate angular abrasive shall be used to achieve a 2.0 to 4.0 mil anchor profile.

Concrete: Concrete must be cured 28 days at 77°F and 50% relative humidity. All surfaces shall be prepared in accordance with ASTM D4258 and ASTM D4259. All voids in concrete shall be filled and repaired.

Spray: A single leg airless unit shall be used. The unit shall be a minimum of 60:1 airless pump. A wet-on-wet spray technique should be used to achieve 11 to 26 mils. The coating thickness should be measured using a wet-film thickness gauge. **Mixing:** Power mix both A & B separately then combine and power mix thoroughly for minimum two minutes. Do not mix partial kits.

Repairs: Surface shall be roughened approximately 1" around all repair areas using 60 to 80 grit sandpaper and then remove remaining dust with a clean dry cloth, brush or clean compressed air. Power mix both A&B separately then combine and power mix thoroughly for minimum two minutes. Do not mix partial kits. The coating can then be brush or roll applied to specified mil thickness (not to exceed 26 mils wet film thickness). Cure times are dependent on temperature and will be extended at cooler temperatures. Note: If steel has been exposed in the repair area and flash rust has developed please refer to the Steel surface preparation detailed above.



Protal™ 600 CTE

PROPERTY SPECIFICATIONS

PROPERTIES

Solids by weight	76%
VOC	1.9 lbs/gal
Specific Gravity	1.4
Min / Max Overcoating time @77°F	5 hours / 24 hours
Wet Film Thickness Per Coat*	
(minimum)	11 mils
(maximum)	26 mils
Dry Film Thickness Per Coat*	
(minimum)	8 mils
(maximum)	19 mils
Pot Life @ 77°F	2 hours
@ 90°F	1 hour
Dry to Touch @ 50°F	6 hours
@ 77°F	3 hours
@ 90°F	1.5 hours
Final Cure Immersion service @ 50°F	14 days
@ 77°F	7 days
@ 90°F	5 days
Minimum Dewpoint/Substrate Differential	Dewpoint +5°F
Minimum Substrate Temperature Theoretical	40°F
Coverage (need to allow for loss during mixing and application)	76 SF/Gal @ 16 mils
Temperature (Immersion)	130°F
Temperature (Atmospheric)	350°F
Abrasion Resistance ASTM D 4060-01	
1000 cycles, CS17 wheel, 2.2lb load	0.004oz loss
Direct Impact Resistance ASTM D2794	100 in. lb.
Pencil Hardness ASTM D3363	F
Top Coat	Not Recommended
Hot Salt Fog 95°F ASTM B117, 2000 hrs	Excellent
Flash Point	83°F
Adhesion ASTM D 4541	3,400 psi
Ratio by volume (A to B)	4:1
Gloss	Semi-Gloss
Color	Black

***NOTE:** Total film thickness not to exceed 35 mils in thickness to prevent solvent entrapment.

STORAGE: Minimum 2 years when stored in original unopened containers at 41°F to 110°F.

CLEANING: Clean equipment with Xylene, Toluene or equivalent solvent cleaner. If work stoppage happens, then all material must be cleared out as to not allow product to set within equipment.

HEALTH AND SAFETY: Wear protective clothing and ensure adequate ventilation. Avoid contact with skin and eyes. See safety data sheet for further information.

PACKAGING: 5 gallon kits. Other sizes available upon request.



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