TECHNICAL DATA SHEET



PROTAL 650 CTR

Environmentally Friendly Alternative to Coal Tar Epoxy

Description

Protal 650 CTR (Coal Tar Replacement) is a two-part product formulated to replace coal tar epoxy. It is based on polyamide chemistry designed as an environmentally friendly alternative to hazardous coal tar epoxies for long-term corrosion protection of steel and concrete substrates against water and seawater corrosion.

Uses

- Steel and concrete surfaces that require a coating
- · Corrosion protection of sheet piles
- Corrosion protection of steel piles
- · Corrosion protection of reservoirs, lock gates and many other application
- · All applications where a coal tar epoxy would be used

Features

- Excellent resistance to water / seawater
- Good impact resistance
- · Excellent flexibility, hardness, and adhesion
- · High build 16 to 26 mils in one coat
- Touch dry 3 hours at 77°F
- · Can be brush or spray applied
- Environmentally friendly
- Non-Carcinogenic replacement for coal tar epoxy
- Exceeds AWWA C-210 specifi cations

Surface Prep

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-SP10orNACE No. 2. Appropriate angular grit shall be used to achieve a 2.0 to 4.0 mil anchor profile. For non-immersion service, prepare surfaces using SSPC - SP2 / SP3.

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



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D4259. All voids in concrete shall be filled and repaired.

Mixing

Power mix both A & B separately then combine and power mix thoroughly for two minutes. Do not mix partial kits.

Application

Spray: A single-leg, airless unit shall be used. The unit shall be a minimum of 68:1 airless pump. A wet-on-wet spray technique should be used to achieve 16 to 26 mils. The coating thickness should be measured using a wet-film thickness gauge.

Brush: Use a medium bristle brush.

Roller: Use a short-nap roller cover with phenolic core.

For complete application instructions please refer to Protal 650 CTR Application Specifications.

Storage

Minimum 18 months when stored in original unopened containers at 41°F to 110°F.

Cleaning

Clean equipment with MEK, Archco 400E™ Thinner or equivalent solvent cleaner.

Health & Safety

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

5 gallon kits. Contact Denso regarding other kit sizes.

Packaging



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TECHNICAL DATA

PROPERTIES

Solids by Volume 78% **Specific Gravity** 1.4 Minimum Dewpoint / Substrate Differential Dewpoint +5°F **Minimum Substrate Temperature** 50°F 78 SF/Gal @ 16 mils **Theoretical Coverage** Hardness (ASTM D-2240-02) Shore D 70 **Spray Equipment Required** 68:1 airless Salt Fog ASTM B117 (1500 Hrs) Excellent Cathodic Disbondment @ 75°F 30 Days ASTM 68 0.37 in. Wet Film Thickness Per Coat* (minimum) 16 mils (maximum) 26 mils **Dry Film Thickness Per Coat*** 12 mils (minimum) (maximum) 19 mils Pot Life @ 77°F 2.5 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 7 days @ 90°F 5 days Adhesion - ASTM D4541 3,000 psi Abrasion Resistance, 1000 Cycles, CS-17 Wheels, 191 mg loss 1 kg Load - ASTM D4060 Not recommended **Thinner** Ratio by Volume (A to B) 4:1 Semi-Gloss Gloss Grey - Other Colors Available Color



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Page 3 of 3 VER 2108.24