PRODUCT DATA SHEET

PROTAL 7200

Fast Cure, High Build Pipeline Coating

Description

Protal 7200 is a VOC free, 100% solids, 2 part epoxy coating specially formulated to compliment FBE coated pipe. It is a high build liquid coating that is brush or spray applied (referred to as Protal 7250 in Canada) in one coat in the field or shop. It cures very fast to allow quick handling and backfill times.

Uses

On-site protection of girth welds, tie-ins, welds for boring applications, repairs to FBE, push-rack applications, station piping, fittings and fabrication. Also used for main line pipe coating, sacrificial coating for directional drill (ARO) and road bore pipe, and rehabilitation of existing pipelines.

Features

- · Fast touch dry and set times
- High temperature resistance up to 203°F (95°C)
- · High build (up to 50 mils in one coat)
- Excellent adhesion (compliments FBE coated pipe)
- · High abrasion resistance for drilling applications
- Can be used as an abrasion resistant coating (ARO)
- · Safe and environmentally friendly
- · Does not shield cathodic protection
- · Can be applied with brush, roller or spray
- · Available in a variety of packaging options
- · Meets AWWA C-210-92 specifications

Application

Brush: Prepare surfaces by grit blasting to a clean near-white finish, SSPC-SP 10/NACE No. 2. Appropriate angular grit shall be used to achieve a 2.5 to 5 mil anchor profile. Initially stir the base and hardener. Add the hardener to base and mix at a slow speed until a constant color is achieved making sure all sides of container are scraped. Apply mixed material onto surface and brush, trowel or roll to required mil thickness. A wet-film thickness gauge shall be used to measure mil thickness. If surface temperature falls below 50°F (10°C), surface should be preheated to achieve faster cure. Preheat may be achieved with a propane torch or induction coil. Resin and hardener component shall be kept warm, at a minimum of 60°F (15°C), to mix easily.

Spray: Prepare surfaces by grit blasting to a clean near-white finish, SSPC-SP 10/NACE No. 2. The equipment should be a plural component airless spray unit with a proportioning pump capable of a volume mixing ratio of 3:1. Standard ancillary equipment should include minimum 10 gallon hoppers, 2 ea. static mixers, 25 ft. max x 1/4" whip hose, and mastic gun with a 19 to 27 thou tip. (Applicator should consult with Denso regarding recommended equipment). Part A should be heated to 140°F-160°F and Part B heated to 100°F-110°F. Hose bundle shall be set at 140°F-150°F. A wet on wet spray technique should be used to achieve a minimum thickness of 20 mils. The coating thickness should be measured using a wet-film thickness gauge. The equipment settings are only guidelines and may vary based on equipment.

For complete application instructions please refer to Protal 7200 application specifications.



Protal 7200

TECHNICAL DATA

VALUE **PROPERTIES** Solids Content 100% Mixed Material - (Mixed) @ 77°F (25°C) Specific Gravity 1.63 Viscosity 170,000 cps Color Green Mixing Ratio (A/B) by Volume 3 Parts Base: 1 Part Hardener **Cure Times** Pot Life @ 77°F (25°C) 14 - 17 Minutes Pot Life @ 97°F (36°C) 7 - 8 Minutes Handling Time @ 77°F (25°C) 2.5 - 3 Hours Handling Time @ 117°F (47°C) 1 Hour Handling Time @ 157°F (69°C) 20 Minutes **Recoat Window** @ 57°F (14°C) 5 Hours @ 77°F (25°C) 2 Hours @ 97°F (36°C) 1 Hour **Theoretical Coverage** 14 ft²/30 mils/liter Thickness - Weld Joints / FBE Repairs Minimum/Maximum 20/70 mils Recommended 25 - 30 mils Thickness - Bore Pipe Minimum/Maximum 40/70 mils Recommended 45 - 60 mils Holiday Detection - based on min. mil. thickness specified 125 volts/mil Cathodic Disbondment Test (ASTM G95) 28 Days @ 77°F (25°C) 3 mm 28 Days @ 150°F (65°C) 4 mm 28 Days @ 185°F (85°C) 6 mm 28 Days @ 203°F (95°C) 6 mm Hardness (ASTM D-2240-02) Shore D 85 +/-2 Impact Resistance (ASTM G14-04) @ 32°F (0°C) 70.6 in-lbs. Tabor Abrasion (ASTM 4060-07) -1000 cycles, CS-17 wheels, 1000 g. load 1,270 cycles per mil (93 mg) -5000 cycles, CS-17 wheels, 1000 g. load 1,612 cycles per mil (338 mg) Gouge Resistance (Partech Test - 40 kg load) 15.4 mils Dielectic Strength (ASTM D-149) 450 V/mil Adhesion to Steel (ASTM D-4541-02) 3,956 psi Adhesion to FBE (ASTM D-4541-02) 2,579 psi Service Temperature -40°F to 203°F (-40°C to 95°C) -30°F to 212°F (-34°C to 100°C) **Application Temperature** Note: If temperature falls below 50°F (10°C), surface must be preheated and maintained throughtout the cure process.

STORAGE: Minimum 24 months when stored in original containers @ 40°F (4°C) to 105°F (41°C). On job site where temperatures are below 50°F (10°C) product should be kept warm to mix properly (65°F to 85°F optimal). Do not allow material to freeze.

CLEANING: Clean equipment with Xylene, MEK, Acetone or equivalent solvent cleaner.

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

PACKAGING: 1, 1.5, 1.75 and 2 liter kits and 75 liter & 800 liter kits standard. Dual cartridge repair tubes (50 ml, 400 ml & 1000 ml) and dispensing guns available for small repair areas.



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