

PROTAL™ 7200 CARTRIDGE (1000 ml)

Fast Cure, High Build Spray Applied Pipeline Coating

Description

Protal 7200 Cartridge (1000 ml) 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 spray applied 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 and road bore pipe, and rehabilitation of existing pipelines.

Features

- Excellent adhesion (compliments FBE coated pipe)
- Fast cure
- High build (up to 70 mils / 1778 microns in one coat)
- High abrasion resistance for drilling applications
- Can be used as an abrasion resistant coating (ARO)
- Does not shield cathodic protection
- Meets AWWA C-210-92 Standard
- Outstanding self-leveling characteristics
- CSA Z245.30 compliant

Application

Spray: Prepare surfaces by grit blasting to a clean near white finish, SSC-SP 10/ NACE No. 2. Heat and check temperature of Part "A" Protal Repair Cartridge to approximately 120°F to 135°F (49°C to 54°C) in a microwave. Convection oven, weld box or other methods (do not overheat and check with a infrared gun). Utilize the Protal Air Cartridge Gun to spray product. A wet on wet spray technique should be used to achieve a minimum thickness of 20 mils (508 microns). The coating thickness should be measured using a wet film thickness gauge.

All application personnel shall be trained by a Premier Coatings certified trainer prior to application of Protal 7200.

For complete application instructions please refer to Protal 7200 Air Cartridge Gun Application Specifications.



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Protal™ 7200 Cartridge (1000 ml)

TECHNICAL DATA

PROPERTIES

VALUE

| | |
|---|---|
| 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 ft ² /30 mils/liter (1.301 m ² /762 microns/L) |
| Thickness - Weld Joints / FBE Repairs | |
| Minimum/Maximum | 20/70 mils (508/1778 microns) |
| Recommended | 25 - 30 mils (635 - 762 microns) |
| Thickness - Bore Pipe | |
| Minimum/Maximum | 40/70 mils (1016/1778 microns) |
| Recommended | 45 - 60 mils (1143 - 1524 microns) |
| Holiday Detection | Refer to NACE SPO188 |
| 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 80+ |
| 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 |
| Gouge Resistance (Partech Test - 40 kg load) | 15.4 mils (391 microns) |
| Dielectric Strength (ASTM D-149) | 450 V/mil (17,716 V/mm) |
| Adhesion to Steel (ASTM D-4541-02) | 3,956 psi (27.3 MPa) |
| Adhesion to FBE (ASTM D-4541-02) | 2,579 psi (17.8 MPa) |
| Service Temperature | -40°F to 203°F (-40°C to 95°C) |
| Application Temperature | -30°F to 212°F (-34°C to 100°C) |

Note: If temperature falls below 50°F (10°C), surface must be preheated and maintained throughout 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).

CLEANING: Clean equipment with MEK or equivalent solvent cleaner.

HEALTH AND SAFETY: Apply under well ventilated conditions. Wear suitable protective clothing and glasses. See material safety data sheets.

PACKAGING: 1000 ml dual cartridges. (9 per carton).

Dispensing guns and static mixing tips (1000 ml) sold separately.



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