

# 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 Denso certified trainer prior to application of Protal 7200.

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



# Protal™ 7200 Cartridge (1000 ml)

## TECHNICAL DATA

PROPERTIES	VALUE
<b>Solids Content</b>	100%
<b>Mixed Material - (Mixed) @ 77°F (25°C)</b>	
Specific Gravity	1.63
Viscosity	170,000 cps
Color	Green
<b>Mixing Ratio (A/B) by Volume</b>	3 Parts Base: 1 Part Hardener
<b>Cure Times</b>	
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
<b>Recoat Window</b>	
@ 57°F (14°C)	5 Hours
@ 77°F (25°C)	2 Hours
@ 97°F (36°C)	1 Hour
<b>Theoretical Coverage</b>	14 ft <sup>2</sup> /30 mils/liter (1.301 m <sup>2</sup> /762 microns/L)
<b>Thickness - Weld Joints / FBE Repairs</b>	
Minimum/Maximum	20/70 mils (508/1778 microns)
Recommended	25 - 30 mils (635 - 762 microns)
<b>Thickness - Bore Pipe</b>	
Minimum/Maximum	40/70 mils (1016/1778 microns)
Recommended	45 - 60 mils (1143 - 1524 microns)
<b>Holiday Detection</b>	Refer to NACE SPO188
<b>Cathodic Disbondment Test (ASTM G95)</b>	
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
<b>Hardness (ASTM D-2240-02)</b>	Shore D 80+
<b>Impact Resistance (ASTM G14-04) @ 32°F (0°C)</b>	70.6 in-lbs.
<b>Tabor Abrasion (ASTM 4060-07)</b>	
-1000 cycles, CS-17 wheels, 1000 g. load	1,270 cycles per mil
<b>Gouge Resistance (Partech Test - 40 kg load)</b>	15.4 mils (391 microns)
<b>Dielectric Strength (ASTM D-149)</b>	450 V/mil (17,716 V/mm)
<b>Adhesion to Steel (ASTM D-4541-02)</b>	3,956 psi (27.3 MPa)
<b>Adhesion to FBE (ASTM D-4541-02)</b>	2,579 psi (17.8 MPa)
<b>Service Temperature</b>	-40°F to 203°F (-40°C to 95°C)
<b>Application Temperature</b>	-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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