

# PROTAL 7200 REPAIR CARTRIDGE

## Fast Cure Epoxy Repair Coating

### Description

Protal 7200 Repair Cartridges are specially formulated for patching and repairing damaged FBE and other liquid coated pipelines. The repair cartridges are packaged in 2-component tubes that are applied with a dispensing gun (sold separately). Two convenient sizes (400 ml and 50 ml) are available.

### Uses

Repair coating for damaged FBE and other liquid coated pipelines. Also used as coating of cadweld areas.

### 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 specifications
- Outstanding self-leveling characteristics
- CSA Z 245.30-14 compliant

### Application

Surface shall be roughened approximately 1" (25 mm) around all repair areas using a Carborundum cloth or 60 to 80 grit sandpaper and than remove the remaining dust with a clean, dry cloth, brush or clean compressed air. Material can be applied by injecting material into a small container and mixing until a uniform color is achieved or utilizing the Protal Static Mixing Tip. Material can then be brush applied to specified mil thickness (minimum 20 mils / 508 microns). Cure times are dependent on temperature and will be extended at cooler temperatures.

\*Please refer to "Protal 7200 Accelerated Cure Specifications for Repairs" to achieve a 5 minute cure time.



**Protal 7200  
Repair Cartridge  
(400 ml)**



**Protal Cartridge Gun  
3:1 (400 ml)  
Sold Separately**



**Protal Cartridge Gun  
3:1 (50 ml)  
Sold Separately**



**Protal 7200  
Repair Cartridge  
(50 ml)**

# Protal 7200 Repair Cartridge

## 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> (1.3 m <sup>2</sup> )/30 mils/liter
<b>Thickness - Weld Joints / FBE Repairs</b>	
Minimum/Maximum	20/70 mils (508/1178 microns)
Recommended	25 - 30 mils (635 - 762 microns)
<b>Thickness - Bore Pipe</b>	
Minimum/Maximum	40/70 mils (1016/1178 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 85 +/-2
<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:** 400 ml and 50 ml dual cartridges.

Dispensing guns and static mixing tips (400ml or 50ml) sold separately.



**HOUSTON:**  
9747 Whithorn Drive,  
Houston, Texas,  
U.S.A. 77095  
Tel: 1-281-821-3355  
Fax: 1-281-821-0304

**TORONTO:**  
90 Ironside Crescent,  
Unit 12, Toronto,  
Ontario, Canada M1X1M3  
Tel: 1-416-291-3435  
Fax: 1-416-291-0898

e-mail: [info@premiercoatings.com](mailto:info@premiercoatings.com)

[www.premiercoatings.com](http://www.premiercoatings.com)

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