

# PROTAL™ 7900HT CARTRIDGE (1000 ml)

## High Temperature Spray Applied Pipeline Coating

### Description

Protal 7900HT Cartridge (1000 ml) is a VOC free, 100% solids, 2 part epoxy coating for pipelines operating at higher temperatures. It is a high build liquid coating that is spray applied in one coat in the field or shop. It cures fast to allow quick backfill when applied to hot pipe.

### Uses

Spray or hand applied to pipelines operating at elevated temperatures. Used on girth welds, pipe, fittings, valves and fabrication.

### Features

- High build (up to 60 mils / 1524 microns in one coat)
- Excellent adhesion
- Intermittent service temperature up to 300°F (150°C)
- Very low permeability
- High abrasion resistance
- Safe and environmentally responsible
- Does not shield cathodic protection
- CSA Z245.30 compliant
- Meets AWWA C-210 Standard
- Outstanding self-leveling characteristics

### 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 25 mils (635 microns). The coating thickness should be measured using a wet film thickness gauge.

For complete application instructions please refer to Protal 7900HT Air Cartridge Gun Application Specifications.



# TECHNICAL DATA SHEET

## Storage

Minimum 24 months when stored in original containers between 40°F (4°C) and 100°F (38°C). On job-site where temperatures are below 68°F (20°C) product must be kept warm to mix properly.

## Cleaning

Clean equipment with MEK or equivalent solvent cleaner.

## Health & Safety

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

## Packaging

1000 ml dual cartridges. (9 per carton).

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



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# TECHNICAL DATA SHEET

## Tech Data

Properties	Imperial	Metric
<b>Solids Content</b>	100%	100%
<b>Base Component — unmixed @ 77°F (25°C)</b>		
Specific Gravity	1.54	1.54
Viscosity	43,000 cps	43,000 cps
Color	White	White
<b>Hardener — unmixed @ 77°F (25°C)</b>		
Specific Gravity	1.43	1.43
Viscosity	27,800 cps	27,800 cps
Color	Black	Black
<b>Mixed Material — mixed @ 77°F (25°C)</b>		
Specific Gravity	1.51	1.51
Viscosity	70,800 cps	70,800 cps
Color	Gray	Gray
<b>Mixing Ratio (A/B) by Volume</b>	3 Parts Base: 1 Part Hardener	3 Parts Base: 1 Part Hardener
<b>Pot Life @ 77°F (25°C)</b>	30 minutes	30 minutes
<b>@ 97°F (36°C)</b>	15 minutes	15 minutes
<b>Theoretical Coverage</b>	14 ft <sup>2</sup> /30 mils/liter	1.3 m <sup>2</sup> /762 microns/liter
<b>Actual Coverage</b>	8 - 10 sq. ft./liter	0.7 m <sup>2</sup> - 0.9 m <sup>2</sup> /liter
<b>Thickness</b>		
Minimum/Maximum	25/60 mils	635/1524 microns
<b>Cathodic Disbondment Test (ASTM G95)</b>		
28 Days @ 176°F (80°C)	5.25 mm	5.25 mm
28 Days @ 250°F (120°C)	8.1 mm	8.1 mm
28 Days @ 302°F (150°C)	8.8 mm	8.8 mm
<b>Abrasion Resistance</b>	Excellent	Excellent
<b>Adhesion to Steel</b>	3,030 psi	21 MPa
<b>Continuous Maximum Service Temperature</b>	250°F	121°C
<b>Intermittent Maximum Service Temperature</b>	300°F	150°C
<b>Hardness (ASTM 2240)</b>	Shore D 80+	Shore D 80+
<b>Initial Handling @ 77°F (25°C)</b>	4 to 6 hours	4 to 6 hours
<b>Initial Handling @ 220°F (104°C)</b>	15 to 20 minutes	15 to 20 minutes



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