PRODUCT DATA SHEET

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 Z 245.30-14 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 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.

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Technical Data

Properties	Value
Solids Content	100%
Base Component — unmixed @ 77°F (25°C)	
Specific Gravity	1.54
Viscosity	43,000 cps
Color	White
Hardener — unmixed @ 77°F (25°C)	
Specific Gravity	1.43
Viscosity	27,800 cps
Color	Black
Mixed Material — mixed @ 77°F (25°C)	
Specific Gravity	1.51
Viscosity	70,800 cps
Color	Gray
Mixing Ratio (A/B) by Volume	3 Parts Base: 1 Part Hardener
Pot Life @ 77°F (25°C)	30 minutes
@ 97°F (36°C)	15 minutes
Theoretical Coverage	14 ft^2/30 mils/liter (1.3 m^2/762 microns/liter)
Actual Coverage	8 - 10 sq. ft./liter (0.7 m^2 - 0.9 m^2/liter)
Thickness	
Minimum/Maximum	25/60 mils (635/1524 microns)
Holiday Detection	125 volts/mil (4920 V/mm)
Cathodic Disbondment Test (ASTM G95)	
28 Days @ 176°F (80°C)	5.25 mm
28 Days @ 250°F (120°C)	8.1 mm
28 Days @ 302°F (150°C)	8.8 mm
Resistance to Cathodic Disbondment	Excellent
Abrasion Resistance	Excellent
Adhesion to Steel	3,030 psi (21 MPa)
Continous Maximum Service Temperature	250°F (121°C)
Intermittent Maximum Service Temperature	300°F (150°C)
Hardness (ASTM 2240)	Shore D min. 80-85
Initial Handling @ 77°F (25°C)	4 to 6 hours
Initial Handling @ 220°F (104°C)	15 to 20 minutes

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 AND SAFETY: Wear protective clothing and ensure adequate ventilation. Avoid contact with skin and eyes. See material 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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