

PROTAL 7900HT REPAIR CARTRIDGE (400 ml)

High Temperature Pipeline Repair Coating

Description

Protal 7900HT Repair Cartridge (400 ml) is a VOC free, 100% solids, 2 part epoxy coating specially formulated for patching and repairing damaged FBE and other liquid coated pipelines operating at higher temperatures. It cures fast to allow quick backfill when applied to hot pipe. The repair cartridges are packaged in 2-component tubes that are applied with a dispensing gun (sold separately).

Uses

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

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

Application

Surface shall be roughened approximately 1" (25 mm) around all repair areas using a Carborundum cloth or 60 to 80 grit sandpaper and then 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 25 mils / 635 microns). Cure times are dependent on temperature and will be extended at cooler temperatures.



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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)
Continuous 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: 400 ml dual cartridges. (20 per carton).

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



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