

PROTAL 7900

High Temperature Pipeline Coating

Description

Protal 7900 is a VOC free, 100% solids epoxy coating for pipelines operating at higher temperatures. It is a high build liquid coating that can be hand or 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 temperatures up to 250°F (121°C). Used on girth welds, pipe, fittings, valves and fabrication.

Features

- High build (up to 40 mils in one coat)
- Can be spray or hand applied
- Excellent adhesion
- Service temperature up to 250°F (121°C)
- Very low permeability
- High abrasion resistance
- Safe and environmentally responsible
- Does not shield cathodic protection

Application

By Hand:

Prepare surfaces by grit blasting to a clean near white finish, SSPC-SP 10/NACE No. 2. Mix each of the base and hardener to an even consistency. Add the hardener to base and mix until an even color is achieved making sure all sides of container are scraped. Product shall be applied to surfaces ranging from 40°F (4°C) to 220°F (105°C) at a minimum of 30 mils. Immediately pour mixed material onto surface and brush, trowel or roll to required mil thickness. A wet film thickness gauge should be used to measure mil thickness.

Spray:

Prepare surfaces by grit blasting to a clean near white finish, SSPC-SP 10/NACE No. 2. The equipment should be a plural component airless spray unit with a proportioning pump capable of a volume mixing ratio of 4:1. Standard ancillary equipment should include minimum 10 gallon hoppers, static mixers, whip hose, and mastic gun. (Applicator should consult with Denso regarding recommended equipment). Product shall be applied to surfaces ranging from 40°F (4°C) to 220°F (105°C). A wet on wet spray technique should be used to achieve a minimum thickness of 30 mils. The coating thickness should be measured using a wet film thickness gauge.



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Technical Data

PROPERTIES	VALUE
Solids Content	100%
Base Component — unmixed @ 77°F (25°C)	
Specific Gravity	1.30
Viscosity	Soft Gel
Color	White
Hardener — unmixed @ 77°F (25°C)	
Specific Gravity	1.30
Viscosity	Soft Gel
Color	Black
Mixed Material — mixed @ 77°F (25°C)	
Specific Gravity	1.30
Viscosity	Soft Gel
Color	Gray
Mixing Ratio by Volume	4 Parts Base: 1 Part Hardener
Theoretical Coverage	14 ft ² /30 mils/liter
Thickness	
Minimum/Maximum	30/60 mils
Holiday Detection	100 volts/mil
Hardness (ASTM 2240)	Shore D min. 85
Resistance to Cathodic Disbondment	Excellent
Abrasion Resistance	Excellent
Adhesion to Steel	3,030 psi
Maximum Service Temperature	250°F (121°C)
Pot Life @ 77°F (25°C)	30 minutes
Initial Handling @ 77°F (25°C)	4 to 6 hours
Initial Handling @ 220°F (104°C)	30 to 45 minutes
Post Cure*	3 hours min @ 140°F (60°C)

* If product is applied onto a surface below 140°F (60°C) a secondary post cure will be required for a minimum of three hours at 140°F (60°C) or higher to achieve total cure and ultimate physical properties.

STORAGE: Minimum 24 months when stored in original containers above 40°F (4°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: 1.0 liter and 2.0 liter kits. For spray applications, sold in 90 liter and 1000 liter drums. Special kit sizes are available on request.



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