PRODUCT DATA SHEET

PROTAL 7125

Fast Cure, Low Temperature Pipeline Coating

Description

Protal 7125 is specifically formulated to be applied to colder substrates at colder ambient temperatures. It is a high build liquid coating that is hand applied in one coat to many areas of in-service pipelines or during pipeline construction in the field. It cures fast to allow quick handling and backfilling, even down to -4°F (-20°C). Protal 7125 is intended for use where a quick cure is required at lower substrate and/or ambient conditions such as during winter applications or on colder operating temperature pipelines.

Uses

Used as a rehabilitation coating for existing low temperature in-service operating pipelines, station piping, girth welds, tie-ins, push rack (laybarge applications), repairs to FBE, fittings and fabrication. It may also be used for new construction where colder temperatures exist and preheating or post heating is not practical or feasible.

Features

- Cold temperature application down to -4°F (-20°C)
- Will not freeze
- Fast cure, fast initial set
- Will cure when submersed in water
- High build (in one coat)
- Excellent adhesion (compliments FBE coated pipe)
- Does not shield cathodic protection
- Repair cartridges available

Application

Prepare surfaces by grit blasting to a clean near white finish, SSC-SP 10/ NACE No. 2. Appropriate angular grit shall be used to achieve a 2.5 to 5 mil anchor profile. (Repair areas shall be roughened using Carborundum cloth or 80 grit sandpaper and wiped clean with an isopropyl alcohol soaked cloth prior to patching.) Add Part B (hardener) to Part A (base) and mix with a stir stick or power mixer, (at a slow speed so as not to introduce air into the product), until a consistant light gray color is achieved without streaks present. During the mixing process, the inside surface of the container should be scraped to obtain a complete mixture. Pour mixed material onto surface and brush, trowel or roll to required thickness. A wet film thickness gauge shall be used to measure mil thickness (min. 20 mils). Backfilling times are dependent on temperature and will be extended at cooler temperatures. Note: Denso recommends surface temperature during application shall not exceed 68°F (20°C) for optimum performance characteristics.

For complete application instructions, refer to "Protal 7125 Hand Application Specifications".

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Protal 7125

Technical Data

Properties	Value
Percent Reactive	100%
Base Component - (Unmixed) @ 77°F (25°C)	
Specific Gravity	1.54
Viscosity	Thixotropic Liquid
Color	White
Hardener - (Unmixed) @ 77°F (25°C)	
Specific Gravity	1.48
Viscosity	Soft Paste
Color	Black
Mixed Material - (Mixed) @ 77°F (25°C)	
Specific Gravity	1.53
Viscosity	Thixotropic Liquid
Color	Light Gray
Mixing Ratio (A/B) by Volume	10 parts base:1 part hardener
Gel Time/Pot Life — 1.5 liter kit	
Material @ 68°F (20°C)	10 Minutes
Material @ 50°F (10°C)	18 Minutes
Material @ 32°F (0°C)	30 Minutes
Material @ 14°F (-10°C)	45 Minutes
Back Fill Times — Material @ 50°F (10°C)	
Ambient & Substrate Temp. @ 68°F (20°C)	20 - 30 Minutes
Ambient & Substrate Temp. @ 50°F (10°C)	45 - 60 Minutes
Ambient & Substrate Temp. @ 32°F (0°C)	2 Hours
Ambient & Substrate Temp. @ 14°F (-10°C)	3 - 4 Hours
Theoretical Coverage	14 ft^2 (1.3 m^2)/liter at 25-30 mils DFT
Actual Coverage	10 ft^2 (1.0 m^2)/liter at 25-30 mils DFT
Thickness	
Minimum/Maximum	20/50 mils
Recommended	25 - 30 mils
Holiday Detection	125 volts / mil
Cathodic Disbondment 28 Days @ 68°F (20°C)	7.1 mm
Adhesion to Steel	2400 psi
Hardness (ASTM 2240)	Shore D 85 min.
Gouge Resistance	3 Passes = 0 Fail @ 50 kg
Application Temperature (surface)	-4°F to 68°F (-20°C to 20°C)
Service Temperature	-40°F to 150°F (-40°C to 65°C)

STORAGE: 12 months when stored in original containers between 33°F and 80°F (0.5°C and 27°C). Product will not freeze.

CLEANING: Clean equipment with MEK or equivalent solvent cleaner.

HEALTH AND SAFETY: Spray or brush under well ventilated conditions. Wear suitable protective clothing and glasses. See material safety data sheet.

PACKAGING: 0.8 liter kits, 1.5 liter kits and 825 ml repair cartridges.

Dispensing guns and static mixing tips for repair cartridges sold separately.

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