

# 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 brush or spray 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 when applied to substrates below 32°F (0°C)
- Fast cure, fast initial set
- Will cure when submersed in water after application
- High build (up to 50 mils / 1270 microns in one coat)
- Excellent adhesion (compliments FBE coated pipe)
- High abrasion resistance for drilling applications
- Can be used as an abrasion resistant coating (ARO)
- Does not shield cathodic protection
- Repair cartridges available (50 ml and 825 ml)

#### Application

**Brush:** Prepare surfaces by grit blasting to a clean near-white finish, SSPC-SP 10 / NACE No. 2. Appropriate angular grit shall be used to achieve a 2.5 to 5 mil (63 - 127 microns) anchor profile. (Repair areas shall be roughened using Carborundum cloth or 80 grit sandpaper and wiped clean with a cloth or brush 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 consistent 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 / 508 microns). Backfilling times are dependent on temperature and will be extended at cooler temperatures. For complete brush application instructions, refer to "Protal 7125 Brush Application Specifications".

**Spray:** For complete spray application instructions, refer to "Protal 7125 Spray Application Specifications".



# Protal 7125

## TECHNICAL DATA

PROPERTIES	VALUE
<b>Percent Reactive</b>	100%
<b>Base Component - (Unmixed) @ 77°F (25°C)</b>	
Specific Gravity	1.54
Viscosity	Thixotropic Liquid
Color	White
<b>Hardener - (Unmixed) @ 77°F (25°C)</b>	
Specific Gravity	1.48
Viscosity	Soft Paste
Color	Black
<b>Mixed Material - (Mixed) @ 77°F (25°C)</b>	
Specific Gravity	1.53
Viscosity	Thixotropic Liquid
Color	Light Gray
<b>Mixing Ratio (A/B) by Volume</b>	10 parts base:1 part hardener
<b>Gel Time/Pot Life – 1.5 liter kit</b>	
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
<b>Back Fill Times – Material @ 50°F (10°C)</b>	
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
<b>Theoretical Coverage</b>	14 ft <sup>2</sup> (1.3 m <sup>2</sup> )/liter at 25-30 mils (635 - 762 microns) DFT
<b>Actual Coverage</b>	10 ft <sup>2</sup> (1.0 m <sup>2</sup> )/liter at 25-30 mils (635 - 762 microns) DFT
<b>Thickness - Weld Joints / FBE Repairs</b>	
Minimum/Maximum	20/60 mils (208 - 1524 microns)
Recommended	25 - 30 mils (635 - 762 microns)
<b>Thickness - Bore Pipe</b>	
Minimum/Maximum	40/60 mils (1016 - 1524 microns)
Recommended	45 - 50 mils (1143 - 1270 microns)
<b>Holiday Detection</b>	125 volts / mil (4,920 V/mm)
<b>Cathodic Disbondment 28 Days @ 68°F (20°C)</b>	7.1 mm
<b>Adhesion to Steel</b>	2400 psi (16.5 MPa)
<b>Hardness (ASTM 2240)</b>	Shore D 70+
<b>Gouge Resistance</b>	3 Passes = 0 Fail @ 50 kg
<b>Application Temperature (surface)</b>	-4°F to 68°F (-20°C to 20°C)
<b>Service Temperature</b>	-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).

**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 200 liter spray kits. 50 ml and 825 ml repair cartridges.

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



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