PRODUCT DATA SHEET

PROTAL™ 7000

High Build Pipeline Coating – Brush Grade

Description

Protal 7000 is a VOC free, 100% solids epoxy coating specially formulated to compliment FBE coated pipelines. It is a high build liquid coating that is hand applied in one coat to many areas during pipeline construction in the field or shop. It cures fast to allow quick backfill when necessary.

Uses

On-site liquid coating of girth welds, tie-ins, welds for boring applications, repairs to FBE, fittings and fabrication. It may also be used for rehabilitation of existing pipeline.

Features

- Fast cure
- High build (in one coat)
- Can be applied with brush or roller
- Excellent adhesion (compliments FBE coated pipe)
- High abrasion resistance for drilling applications
- Safe and environmentally responsible
- Does not shield cathodic protection
- Meets AWWA C-210-92 Standard

Application

Brush: 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 (63.5 to 127 microns) anchor profile. Initially stir the base and hardener. Add the hardener to base and mix at a slow speed until a constant color is achieved making sure all sides of container are scraped. Pour mixed material onto surface and brush, trowel or roll to required mil thickness. A wet film thickness gauge shall be used to measure mil thickness. If surface temperature falls below 50°F (10°C), surface should be preheated to achieve faster cure. Preheat may be achieved with a propane torch or induction coil. Resin and hardener component shall be kept warm, at a minimum of 60°F (15°C), to mix easily.

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Protal™ 7000

Technical Data

Properties	Value
Solids Content	100%
Base Component - (Unmixed) @ 77°F (25°C)	
Specific Gravity	1.70
Viscosity	175,000 cps
Color	White
Hardener - (Unmixed) @ 77°F (25°C)	
Specific Gravity	1.04
Viscosity	7,000 cps
Color	Yellow
Mixed Material - (Mixed) @ 77°F (25°C)	
Specific Gravity	1.46
Viscosity	Thixotropic liquid
Color	Cream yellow
Mixing Ratio (A/B) by Volume	3 Parts Base: 1 Part Hardener
Cure Times	
Pot Life @ 77°F (25°C)	20 Minutes
Handling Time @ 77°F (25°C)	4 Hours
Theoretical Coverage	14 ft^2 (1.3 m^2)/liter for 30 mils average film build
Thickness	
Minimum/Maximum	20/60 mils (508/1524 microns)
Recommended	25 - 30 mils (635/762 microns)
Holiday Detection	Refer to NACE SPO188
Cathodic Disbondment Test	
28 Days @ 77°F (25°C)	5 mm
28 Days @ 150°F (65°C)	9 mm
Adhesion to Steel	2300 psi (15.8 MPa)
Adhesion to FBE	1100 psi (7.6 MPa)
Impact Resistance	Excellent
Hardness (ASTM 2240)	Shore D 75+
Application Temperature	-30°F to 185°F (-34°C to 85°C) Note: If temperature falls below 50°F (10°C), surface must be preheated.
Service Temperature	-40°F to 150°F (-40°C to 65°C)

STORAGE: Minimum 24 months when stored between 40°F (4°C) - 105°F (40°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 kits (packaged separately: 8 base per case and 8 hardeners per case).
Other unit sizes are available upon request.

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