

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

Application

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. Immediately 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 must be preheated to maintain good application properties. Preheat may be achieved with a propane torch or induction coil. Base component shall be kept warm, at a minimum of 68°F (20°C), to achieve easy mixing properties.

For complete application instructions see Protal 7000 application specifications.



Protal 7000

Technical Data

PROPERTIES

Solids Content	100%
Base Component — unmixed @ 77°F (25°C)	
Specific Gravity	1.70
Viscosity	Brookfield spindle 7; 20 rpm: 175,000 cps
Color	White
Hardener — unmixed @ 77°F (25°C)	
Specific Gravity	1.04
Viscosity	Brookfield spindle 2; 2.5 rpm: 7,000 cps
Color	Yellow
Mixed Material — mixed @ 77°F (25°C)	
Specific Gravity	1.46
Viscosity	Thixotropic liquid
Color	Cream yellow
Handling Time	2 Hours
Mixing Ratio	
By Volume	3 Parts Base: 1 Part Hardener
Cure Times	
Pot Life @ 77°F (25°C)	7 to 10 Minutes (dependent on unit size)
Handling Time @ 77°F (25°C)	2 Hours
Theoretical Coverage	14 ft ² (1.3 m ²)/liter for 30 mils average film build
Thickness	
Minimum	20 mils
Recommended	25 - 30 mils
Holiday Detection (Maximum)	2000 volts
Cathodic Disbondment Test	
28 Days @ 77°F (25°C)	5 mm
28 Days @ 150°F (65°C)	9 mm
Adhesion to Steel	2300 psi
Adhesion to FBE	1100 psi
Impact Resistance	Excellent
Hardness (ASTM 2240)	Shore D min 75
Application Temperature	-30°F to 185°F (-34°C to 85°C) <i>Note: If temperature falls below 50°F (10°C), surface must be preheated.</i>
Service Temperature	-40°F to 150°F (-40°C to 65°C)
Glass Transition	150°F (65°C)

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 solvent cleaner (Xylene 95%, Butanol 5%).

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, 1.25, 1.5, 1.75 and 2.0 liter kits (packaged separately: 8 base per case and 16 hardeners per case).

Special kit sizes are available.



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