

PROTAL 7300

Moisture Tolerant Pipeline Liquid Coating

Description

Protal 7300 is a VOC free, 100% solids epoxy coating specially formulated to coat dry, damp or wet surfaces. It is a high build liquid coating that can be applied by applicator pad or brush.

Uses

For the exterior coating of pipelines, structures or other steel surfaces that may be wet or damp due to the environment or as a result of atmospheric condensation.

Features

- Fast cure on cold, damp or wet pipe
- Can be applied to wet or damp surfaces
- High build (up to 50 mils / 1270 microns in one coat)
- Excellent adhesion to wet and damp surfaces
- Safe and environmentally friendly
- Does not shield cathodic protection
- Excellent gouge, abrasion and impact resistance
- Can easily be applied with applicator pad or brush method
- Meets AWWA C-210 specifications
- Outstanding self-leveling characteristics

Application

Prepare surfaces by blasting to a clean near white finish, SSPC-SP 10, NACE No. 2 or Sa 2-1/2. Appropriate angular abrasive shall be used to achieve a 2.5 to 5 mil (63 to 127 microns) anchor profile. Independently mix Part A (resin) and Part B (hardener) prior to adding hardener to the base and mix at a slow speed until a constant color is achieved making sure all sides of container are scraped. Application shall take place immediately after mixing. Apply product onto the surface with Denso Applicator Pad or brush, spread down and around the surface in bands beginning from the leading edge of the material. If applying to a wet surface displace water as the coating is being applied. A wet-film thickness gauge shall be used to measure mil thickness during application.

For complete instructions, please refer to the Protal 7300 Brush Application Specifications.



TECHNICAL DATA SHEET

Storage

Minimum 24 months when stored in original containers between @ 41°F (5°C) to 100°F (36°C).
On job site where temperatures are below 60°F (16°C) product should be kept warm to mix properly.

Cleaning

Clean equipment with MEK or equivalent solvent cleaner.

HSE

Wear protective clothing and ensure adequate ventilation. Avoid contact with skin and eyes.
See safety data sheet for further information.

Packaging

1 liter kit standard. *Other unit sizes are available upon request.*

Tech Data

Properties	Imperial	Metric
Solids Content	100%	100%
Base Component - (Unmixed) @ 77°F (25°C)		
Viscosity	80,000 cps	80,000 cps
Color	White	White
Hardener - (Unmixed) @ 77°F (25°C)		
Viscosity	16,500 cps	16,500 cps
Color	Black	Black
Mixed Material - (Mixed) @ 77°F (25°C)		
Viscosity	60,000 cps	60,000 cps
Color	Gray	Gray
Mixing Ratio (A/B) by Volume	2 Parts Base: 1 Part Hardener	2 Parts Base: 1 Part Hardener
Cure Times		
Pot Life @ 77°F (25°C)	10 - 12 Minutes	10 - 12 Minutes
Pot Life @ 97°F (36°C)	7 - 8 Minutes	7 - 8 Minutes
Handling Time @ 50°F (10°C)	12 Hours	12 Hours
Handling Time @ 72°F (22°C)	6 Hour	6 Hour
Handling Time @ 117°F (47°C)	2 Hours	2 Hours
Shore D Hardness	70 minimum	70 minimum
Theoretical Coverage	14 ft ² /30 mils/liter	1.301 m ² /762 microns/liter
Actual Coverage	6 - 8 ft ² /30 mils/liter	0.5574 - 0.7432 sq. m./liter
Thickness		
Minimum/Maximum	20/70 mils	508/1778 microns
Recommended	30 mils	762 microns

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TECHNICAL DATA SHEET

Tech Data

Properties	Imperial	Metric
Cathodic Disbondment (28 days at 150°F (65°C) @ -1.5 V (CSA Z245.20))		
Dry Substrate	8.2 mm	8,200 microns
Damp Substrate	6.9 mm	6,900 microns
Wet Substrate	6.1 mm	6,100 microns
Water absorption, % weight gain, RT after 5 days	1.8%	1.8%
Gouge Resistance	19 mils	482 microns
Tabor Abrasion (1,000 cycles, CS-17 wheel, 1 kg load)	121 mg	121 mg
Impact (CSA Z245.20) Temp. -22°F (-30°C) @ 1.5 joules	Pass – no holiday	Pass – no holiday
Flexibility (CSA Z245.20) Temp. -22°F (-30°C) @ .45°/PD	Pass – no holiday	Pass – no holiday
Pull-Off Adhesion (RT)		
Dry Substrate	3153 psi	21.74 MPa
Damp Substrate	2363 psi	16.29 MPa
Wet Substrate	2495 psi	17.2 MPa
Adhesion to Steel Substrate ISO 21809-3 Annex C X-Cut Temp 74°F (23°C)	Group 1	Group 1
Adhesion to Steel Substrate ISO 21809-3 Annex C X-Cut Temp 150°F - 28 Day Hot Water Soak	Group 1	Group 1
Adhesion to FBE Coating ISO 21809-3 Annex C X-Cut Temp 74°F (23°C)	Group 1	Group 1
Service Temperature	-40°F to 150°F	-40°C to 65°C



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