

# **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-210-92 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. Initially stir the base and hardener. Add 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.



# Protal 7300

## TECHNICAL DATA

PROPERTIES	VALUE
<b>Solids Content</b>	100%
<b>Base Component - (Unmixed) @ 77°F (25°C)</b>	
Viscosity	80,000 cps
Color	White
<b>Hardener - (Unmixed) @ 77°F (25°C)</b>	
Viscosity	16,500 cps
Color	Black
<b>Mixed Material - (Mixed) @ 77°F (25°C)</b>	
Viscosity	60,000 cps
Color	Gray
<b>Mixing Ratio (A/B) by Volume</b>	2 Parts Base:1 Part Hardener
<b>Cure Times</b>	
Pot Life @ 77°F (25°C)	10 - 12 Minutes
Pot Life @ 97°F (36°C)	7 - 8 Minutes
Handling Time @ 50°F (10°C)	12 Hours
Handling Time @ 72°F (22°C)	6 Hours
Handling Time @ 117°F (47°C)	2 Hours
<b>Shore D Hardness</b>	70 minimum
<b>Theoretical Coverage</b>	14 ft <sup>2</sup> /30 mils/liter (1.301 m <sup>2</sup> /762 microns/liter)
<b>Actual Coverage</b>	6 - 8 ft <sup>2</sup> /30 mils/liter (0.5574 - 0.7432 sq. m./liter)
<b>Thickness</b>	
Minimum/Maximum	30/60 mils (762/1524 microns)
Recommended	30 mils (762 microns)
<b>Holiday Detection</b>	125 volts/mil (4920 V/mm)
<b>Cathodic Disbondment (28 days at 150°F (65°C) @ -1.5 V (CSA Z245.20-14)</b>	
Dry Substrate	8.2 mm (8,200 microns)
Damp Substrate	6.9 mm (6,900 microns)
Wet Substrate	6.1 mm (6,100 microns)
<b>Water absorption, % weight gain, RT after 5 days</b>	1.8%
<b>Gouge Resistance</b>	19 mils (482 microns)
<b>Tabor Abrasion (1,000 cycles, CS-17 wheel, 1 kg load)</b>	121 mg
<b>Impact (CSA Z245.20-14) Temp. -22°F (-30°C) @ 1.5 joules</b>	Pass – no holiday
<b>Flexibility (CSA Z245.20-14) Temp. -22°F (-30°C) @ .45°/PD</b>	Pass – no holiday
<b>Pull-Off Adhesion (RT)</b>	
Dry Substrate	3153 psi (21.74 MPa)
Damp Substrate	2363 psi (16.29 MPa)
Wet Substrate	2495 psi (17.2 MPa)
<b>Adhesion to Steel Substrate ISO 21809-3 Annex C X-Cut Temp 74°F (23°C)</b>	Group 1
<b>Adhesion to Steel Substrate ISO 21809-3 Annex C X-Cut Temp 150°F - 28 Day Hot Water Soak</b>	Group 1
<b>Adhesion to FBE Coating ISO 21809-3 Annex C X-Cut Temp 74°F (23°C)</b>	Group 1
<b>Service Temperature</b>	-40°F (-40°C) to 150°F (65°C)
<b>Application Temperature</b>	32°F (0°C) to 150°F (65°C)

**STORAGE:** Minimum 24 months when stored in original containers @ 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.

**HEALTH AND SAFETY:** Wear protective clothing and ensure adequate ventilation. Avoid contact with skin and eyes. See material safety data sheet for further information.

**PACKAGING:** 1 liter kit standard.

*Other unit sizes are available upon request.*



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