

# PROTAL 7000 AIRLESS SPRAY

## High Performance Epoxy Coating

### Description

Denso Protal 7000 Airless Spray is a solvent-free, two-pack, high-build, high performance epoxy coating which is applied with conventional airless spray equipment.

### Uses

For the long-term protection of exterior surfaces of grit-blasted steel pipes, welded joints, flanges, fittings, valves and industrial steel in highly corrosive areas.

### Features

- Application by conventional airless spray equipment
- Can be applied up to 20 mils (508 microns) in one coat without slumping
- Can be applied up to 60 mils (1524 microns) in multi-coats
- Excellent adhesion
- High resistance to impact
- Excellent resistance to cathodic disbonding
- Very good temperature resistance
- Resistance to a wide range of chemicals including solvents
- Excellent water/sea-water resistance
- Tolerant of damp atmospheric conditions
- Solvent free, low toxicity, environmentally and user friendly
- Meets AWWA C-210-92 specifications

### Application

Prepare surfaces by grit blasting to a clean, near-white finish, SSPC-SP10/NACE No. 2. The coating can be applied by brush or airless spray in one coat (up to 20 mils / 508 microns thick in one coat). A wet-film thickness gauge shall be used to measure uniform application. Plate edges, corners and weld areas shall be stripe coated by brush prior to application. This will help ensure adequate coverage of these areas.

The material temperature in the pails shall be a minimum of 60°F (10°C) and maximum of 85°F (29°C) for the material to spray properly. A 68:1, single-leg airless unit shall be used with a maximum 3/8" x 50 ft (15m) hose. Ensure the two components are mixed thoroughly using a mechanical mixer. The mixed material shall be sprayed immediately after mixing. A wet-on-wet spray technique should be used to achieve a minimum of 20 mils. The coating shall be measured using a wet-film thickness gauge.

When applying by airless spray, refer to the equipment manufacture's operating procedures.

Clean tools and equipment with MEK prior to material curing. Great care must be taken to avoid contaminating the coating material with MEK as this can have adverse effects on the cure of the material.



# Protal 7000 Airless Spray

## TECHNICAL DATA

PROPERTIES	VALUE
Color	Light Grey
Mix Ratio (Part A: B, by volume)	3:1
Solid Content	100%
Specific Gravity (mixed)	1.45
Dry Film Thickness Per Coat	20 - 40 mils (508 - 1016 microns)
Recommended Mil. Thickness (min./max.)	20 to 60 DFT (Depending on application environment)
Theoretical Coverage	80 SF/Gal @ 20 mils (508 microns) DFT
Actual Coverage (w/ 30% waste)	54 SF/Gal @ 20 mils (508 microns) DFT
Cure Time	
Pot Life @ 77°F (25°C)	35 - 40 minutes
Touch Dry @ 77°F (25°C)	3 hrs.
Re-Coat Window @ 77°F (25°C)	3 hrs. to 12 hrs.
Full Cure @ 77°F (25°C)	12 hrs.
Cathodic Disbondment (ASTM G95)	
28 Days @ 77°F (25°C)	3 mm
28 Days @ 150°F (65°C)	5 mm
Thinner	No more than 5% with Archco Thinner 400E
Min. Substrate Temperature	40°F (4°C)
Max. Substrate Temperature	135°F (57°C)
Equipment Recommended	Min. 68:1 Airless
Airless Spray Tip Size	0.023 - 0.031 in. (0.48 - 0.68 mm)
Pressure at Tip	1,500 - 2,500 psi (10.3 - 17.2 MPa)
Surface Temperature	-40°F to 150°F (-40°C to 85°C)
Shore D Hardness (20°C) (ASTM 2240)	85
Flexibility (BG/GBE/CW6)	Pass
Impact Resistance (ASTM G14)	> 5.0 J/mm
Abrasion Resistance (ASTMD 4060-01)	< 75 gr

**STORAGE:** Store in a dry, well ventilated area. Shelf life 12 months in original container @ 40°F to 105°F (5°C to 41°C).

**CLEANING:** Clean equipment with MEK or equivalent solvent cleaner.

**THINNING:** No more than 5% with Archco Thinner 400E

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

**PACKAGING:** 1 & 5 gallon (3.8 & 19 liter) kits available. Minimum order 125 gallon (475 liter).



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