

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 in one coat without slumping
- Can be applied up to 60 mils 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

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 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 materials shall be 50°F (10°C) minimum before spraying. Initially stir Part A (Resin) prior to adding Part B (Hardener). Ensure the two components are mixed thoroughly using a mechanical whip prior to application. The mixed material shall be sprayed immediately after mixing.

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)	2:1
Solid Content	100%
Specific Gravity (mixed)	1.45
Dry Film Thickness Per Coat	20 - 40 mils
Recommended Mil. Thickness (min./max.)	20 to 60 DFT (Depending on application environment)
Theoretical Coverage	80 SF/Gal @ 20 mils DFT
Actual Coverage (w/ 30% waste)	54 SF/Gal @ 20 mils 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)	4 mm
28 Days @ 150°F (65°C)	5 mm
28 Days @ 175°F (80°C)	9 mm
Min. Substrate Temperature	40°F (4°C)
Max. Substrate Temperature	150°F (66°C)
Equipment Recommended	56:1 Airless
Airless Spray Tip Size	0.019 - 0.027 in.
Pressure at Tip	1,500 - 2,500 psi
Temperature resistance	185°F (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)	0.035 gm

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/CLEANING: Do not thin. Clean equipment with MEK or a suitable cleaner immediately after use.

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

PACKAGING: 1 Gallon, 5 Gallon and 165 Gallon kits standard.



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