

PRODUCT NUMBER: 7-1883

DESCRIPTION: Grey Liquid Epoxy

Introduction:

NAP-GARD® 7-1883 GREY LIQUID EPOXY, IS A 100% SOLIDS, TWO-COMPONENT EPOXY USED AS A SINGLE COAT FOR PIPE, VALVES AND FITTINGS. IT CAN ALSO BE UTILIZED AS GIRTH WELD COATING AND TANK LININGS. IN TESTING, IT OFFERS EXCELLENT RESISTANCE TO CATHODIC DISBONDMENT UPTO 95°C.

PRODUCT PROPERTIES

Color:	Grey	Volume Solids:	100%
Components:	7-1883A (Grey) Base 7-1883B (Amber) Hardener	Theoretical Coverage:	1604 sq.ft./mil/gal. (0.98 m ² /Liter/mm)
Shelf Life : @ 5°C to 40°C	2 years	Specific Gravity:	1.46 ± 0.03 Mixed ASTM D-792(Spray or Brush grade)
Mixing Ratio:	3:1 by volume (Brush/Spray Grade) 2:1 by volume (Cartridge)		

TYPICAL PROPERTIES OF APPLIED FILM

Pot Life: (100 gram @ 25°C)	15 minutes	Thickness:	20-50 Mils (General) Tank Lining: 30-60 Mils * Tank Bottom: 50-70 mils*
Dry Time: (30 mils@25°C) (ASTM D1640)	Tack Free: 90 min Dry Hard: 2.5 hrs	Flexibility:	2.59°PPD (25°C, CSA Z245.20-06)
Cured Hardness Shore D: (25°C, ASTM D2240-91)	85	Heat Resistance:	195°C
Impact Resistance: (25°C, ASTM D256)	3.0J	Adhesion to Steel:	3000 PSI [25°C/77°F] ASTM D-4541-Type IV
Cathodic Disbondment: (28 d, CSA Z245.20-06 modified)	9-10 mm (65°C) 10-11 mm (95°C)	Hot Water Soak Adhesion: #1	(28d or 120 d, 75°C, CSA Z245.20-06)
Dielectric Strength: (ASTM D149)	4 × 10 ⁵ volt/inch	Dielectric Constant:	4.2 (ASTM D150 @60 cycles)

*Performance depends on film thickness. Consult Nap-Gard® Specialist for specific recommendations.

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Salt Spray Resistance: >1000 h
(ASTM B117)

Water Absorption: 0.1%
(ASTM D570, 24hrs@rt)

Water Vapour Permeability: <0.003 Perm-inch
(ASTM D1434)

Volume Resistivity: 1.0×10^{14} ohm-cm
(ASTM D257)

CHEMICAL RESISTANCE

90-Day Immersion at room temperature, no change observed in the following chemicals:

10% HNO₃ in H₂O, 5% H₂SO₄ in H₂O, 5% CH₃COOH in H₂O, 10% NaCl in H₂O, 10% NaOH in H₂O, toluene, ethyl acetate, 50% ethanol in H₂O, mineral oil, 30% xylene/30% toluol/40% benzene.

APPLICATION GUIDELINES

I. APPLICATION EQUIPMENT AND METHODS

- 1.0 Spray Grade: Graco Hydra-Cat Airless Spray. Tip Size 0.019-0.031
- 1.1 Brush Garde: Brush or Roller.
- 1.2 Cartridge: Manual Dispenser.

II. SURFACE PREPARATION

- 2.0 Cleanliness: Near White.
- 2.1 Standards: SSPC SP-10 (Steel Structures Painting Council)
NACE 2, Sa 2 ½ (Swedish Scale. ISO 8501-1)
- 2.2 Profile: 2.5 mils minimum – 5.0 mils maximum.

III. TEMPERATURE / HUMIDITY PARAMETERS DURING APPLICATION

- 3.0 Substrate Temperature Range: 10°C to 100°C. Preheating of the substrate is required if the surface to be coated is below 10°C.
- 3.1 To avoid condensation, the substrate temperature must be a minimum of 3°C (5°F) above the dew point temperature.
- 3.2 Product is capable of curing down to 10°C (50°F) but the dry time will be extended.

IV. RE-COAT INTERVAL

Maximum: 2 Hours @25 °C; 5 minutes @100 °C.

Nap-Gard® 7-1883 solids epoxy is a one-coat application product. However, to correct film thickness deficiencies, coating damage or for application to concrete after the re-coat interval of the initial thin coat has been exceeded, the surface must be sweep blasted (for large areas > 49 sq. in.) or sanded using medium grit (80-100) carborundum cloth (for small areas < 49 sq. in.). This requirement is necessary to ensure intercoat adhesion. All dust from the sanding or blast roughening must be removed from the surface prior to the re-coat application.

V. NOTE

All epoxy coatings will change colour, lose gloss and chalk on exterior exposure. However, the protective properties of the material will not be affected.

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