

PRODUCT NUMBER: 7-1888

DESCRIPTION: Red High Temp Liquid Epoxy

Introduction:

NAP-GARD® 7-1888 RED HIGH TEMP LIQUID EPOXY, IS A 100% SOLIDS, TWO-COMPONENT NOVALAC EPOXY USED AS AN EXTERIOR COATING FOR PIPE, VALVES AND FITTINGS IN BURIED OR IMMERSED SERVICE AT HIGH TEMPERATURES. IN TESTING, IT OFFERS EXCELLENT RESISTANCE TO CATHODIC DISBONDMENT UPTO 150°C.

PRODUCT PROPERTIES

Color:	Red	Volume Solids:	100%
Components:	7-1888A (Red) Base 7-1888B (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:	1.48 ± 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)	30 minutes	Thickness:	35 mils minimum
Dry Time: (30 mils@25°C) (ASTM D1640)	Touch Time: 60 min Tack Free: 2 hrs Dry Hard: 5 hrs	Flexibility: (CSA Z245.20-06)	1.74°PPD @ 21°C 1.03°PPD @ 0°C 1.02°PPD @ -30°C
Cured Hardness Shore D: (25°C, ASTM D2240-91)	82	Adhesion to Steel: [25°C/77°F] ASTM D-4541-Type IV	3995 PSI
Impact Resistance: (21°C, 0°C or -30°C ASTM D256)	1.5 J Pass	Hot Water Soak Adhesion: #1 (120 d/75°C) (CSA Z245.20-06)	#1 (28 d/95°C)
Cathodic Disbondment: (28 d, CSA Z245.20-06 modified)	4.7mm (120°C in 50 PSI autoclave) 9.17mm (150°C in 100 PSI autoclave)		

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DuPont Powder Coatings, U.S.A.
9800 Genard Rd.
Houston, TX 77041
Tel.: 713-939-4000
Fax: 713-939-4027

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CHEMICAL RESISTANCE

7-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.

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 Grade: 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: 4 Hours @25 °C; 5 minutes @100 °C.

Nap-Gard® 7-1888 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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