

**PRODUCT NUMBER:** 7-1889

**DESCRIPTION:** Tan Liquid Epoxy

Introduction:

NAP-GARD® 7-1889 TAN LIQUID EPOXY, IS A 100% SOLIDS, TWO-COMPONENT NOVALAC EPOXY USED AS AN INTERNAL LINING FOR STORAGE TANKS, TREATERS AND SEPARATORS. IN TESTING, IT OFFERS EXCELLENT RESISTANCE TO CATHODIC DISBONDMENT UPTO 150°C.

## PRODUCT PROPERTIES

<b>Color:</b>	Tan	<b>Volume Solids:</b>	100%
<b>Components:</b>	7-1889A (Tan) Base 7-1889B (Amber) Hardener	<b>Theoretical Coverage:</b>	1604 sq.ft./mil/gal. (0.98 m <sup>2</sup> /Liter/mm)
<b>Shelf Life :</b> @ 5°C to 40°C	2 years	<b>Specific Gravity:</b>	1.48 ± 0.03 Mixed ASTM D-792(Spray or Brush grade)
<b>Mixing Ratio:</b>	3:1 by volume		

## TYPICAL PROPERTIES OF APPLIED FILM

<b>Pot Life:</b> (100 gram @ 25°C)	30 minutes	<b>Thickness:</b>	Tank Lining: 30-60 Mils * Tank Bottom: 50-70 mils* (6-8 feet up the tank wall)
<b>Dry Time:</b> (30 mils@25°C) (ASTM D1640)	Touch Time: 60 min Tack Free: 2 hrs Dry Hard: 5 hrs	<b>Flexibility:</b> (CSA Z245.20-06)	1.74°PPD @ 21°C 1.03°PPD @ 0°C 1.02°PPD @ -30°C
<b>Cured Hardness Shore D:</b> 82 (25°C, ASTM D2240-91)		<b>Adhesion to Steel:</b>	3500 PSI [25°C/77°F] ASTM D-4541-Type IV
<b>Impact Resistance:</b>	1.5 J Pass (21°C, 0°C or -30°C ASTM D256)	<b>Hot Water Soak Adhesion:</b>	#1 (120 d/75°C) (CSA Z245.20-06) #1 (28 d/95°C)
<b>Cathodic Disbondment:</b>	4.7mm (120°C in 50 PSI autoclave) (28 d, CSA Z245.20-06 modified) 9.17mm (150°C in 100 PSI autoclave)		

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

Revised 03/06/2008

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## CHEMICAL RESISTANCE

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

10% HNO<sub>3</sub> in H<sub>2</sub>O, 5% H<sub>2</sub>SO<sub>4</sub> in H<sub>2</sub>O, 5% CH<sub>3</sub>COOH in H<sub>2</sub>O, 10% NaCl in H<sub>2</sub>O, 10% NaOH in H<sub>2</sub>O, toluene, ethyl acetate, 50% ethanol in H<sub>2</sub>O, mineral oil.

## APPLICATION GUIDELINES

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### I. APPLICATION EQUIPMENT AND METHODS

- 1.0 Spray Grade: Graco Hydra-Cat Airless Spray. Tip Size 0.019-0.031

### II. SURFACE PREPARATION

- 2.0 Cleanliness: Near White.  
2.1 Standards: SSPC SP-10 (Steel Structures Painting Council)  
NACE 2, Sa 2 1/2 (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® 7-1889 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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