

PRODUCT NUMBER: 7-1812
DESCRIPTION: Rehab Pipe

Introduction:

Nap-Gard® Product No. 7-1812 is a range of surface coatings based on "State of the Art" epoxy chemistry. Nap-Gard® Product No. 7-1812 has the benefit of being a pure 100% epoxy. The cathodic disbanding performance of Nap-Gard® Product No. 7-1812 is excellent at temperatures up to 80°C (176°F). Nap-Gard® Product No. 7-1812 is available in Brush Grade and Spray Grade. 7-1812 is also available in cartridges for coating repairs.

LIQUID PROPERTIES

Color:		Theoretical Coverage:	1629 Ft ² /U.S. Gallon/mil 1.0m ² /Litre/mm
Base:	Red Viscous Liquid		
Hardener:	Clear Amber Liquid		
Specific Gravity:	(ASTM D-792)	Tack Free Time:	
Base:	1.68 ± .03	30 mil coating thickness @ 25°C (77°F)	90 minutes
Hardener:	1.06 ± .02		
Mixed:	1.52 ± .03	Dry Hard Time:	
		30 mil coating thickness @ 25°C (77°F)	2.5 hours
Pot Life:			
100 gm mass @ 25°C (77°F)	12 minutes		
Storage/Shelf Life:	Minimum of 24 months		
Store in a dry, well-ventilated area at temperatures between 5°C(41°F) and 40°C(104°F).			

TYPICAL PROPERTIES OF APPLIED FILM

Recommended Film Thickness:		Hardness:	
Wet:	20 – 50 mils	<i>Shore D, ASTM D2240-74</i>	86
Dry:	20 – 50 mils		
Impact Resistance:		Bending:	
CSA Z245.20-M92		CSA-Z245.20-M92	@ 0°C (32°F) 1°ppd
@ 0°C (32°F)	Pass – 2.7 Joules		
@ -30°C (-22°F)	Pass – 2.3 Joules		
Cathodic Disbanding:		Tensile Adhesion to Steel:	
CSA Z245.20-M92		PATTI JR.	
28 days, 80°C (176°F)	7.66 mm	25°C (77°F)	> 4000 PSI
Water Vapor Permeability:		Water Absorption:	
ASTM D-1434	< 0.003 perm-in	ASTM D-570	0.1%, 24 ^h , r.t.

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TYPICAL ELECTRICAL PROPERTIES

Dielectric Strength: ASTM D149-97	400 volts/10 ⁻³ in	Dielectric Constant: ASTM D150	4.2 @ 60 cycles
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GENERAL APPLICATION PARAMETERS

Application Temperature: -25°C to 100°C (-13°F to 212°F)
Applications at temperatures at or below dew point require preheating of the substrate.

Surface Preparation: (Steel Substrate)

Cleanliness:	Near White
Standards:	NACE 2, Sa 2 ½ (Swedish Scale) SSPC SP-10 (Steel Structure Painting Council)
Profile:	2.5 mils to 5.0 mils (62 microns to 125 microns)

Mixing Ratio:

Brush & Spray Grade:	By Volume:
Cartridges:	3 Parts Base:1 Part Hardener 2 Parts Base: 1 Part Hardener

Temperature Parameters During Application:

To avoid risk of condensation, application should be done only when the temperature of the steel is at least 3°C (5°F) higher than the dew point. Application temperatures below 1°C (33°F) must be watched carefully since ice crystals could be present in the surface pores of the steel resulting in poor adhesion and reduce corrosion protection. If the surface to be coated is below 10°C (50°F), preheating of the substrate is recommended (not to exceed 100°C, 212°F) prior to the application of *Nap-Gard*[®] Product No. 7-1812.

Re-Coat Interval:

@ 25°C (77°F)	Maximum 2 Hours
@ 100°C (212°F)	Maximum 15 Minutes

If the maximum re-coat interval is exceeded, the surface must be blast roughened to minimum surface profile of 2 mils.

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