



# Nap-Gard®

## 7-0014

## Multipurpose Fusion Bonded Epoxy

Revised: 6 March 2014

### DESCRIPTION

Nap-Gard® 7-0014 is a thermosetting epoxy powder designed as a coating for both external and internal buried pipeline service. In particular, it is recommended for use on the inside of steel pipe which is in adverse temperature and pressure service and in contact with corrosive oils, gases and waters.

Nap-Gard® 7-0014 meets the requirements of AWWA standards C116, C213, C550 and CSA standard Z245.20-10.

Nap-Gard® 7-0014 has been certified to ANSI/NSF standard 61, drinking water system components.



### TYPICAL POWDER PROPERTIES

<b>Color:</b>	Green	<b>Theoretical Coverage:</b>	130 Ft <sup>2</sup> /lb/mil
<b>Specific Gravity:</b>	1.48 ± .05	<b>Density:</b>	1480 ± 50 g/L
		CSA Z245.20-10 (Section 12.6.2.3)	
<b>Typical Gel Time:</b>	105 ± 21 seconds	<b>Shelf Life*:</b>	12 months
CSA Z245.20-10 @ 204°C (401°F)		@ 25°C (77°F) @ 50% RH	
	65 ± 13 seconds		
TM # 10.210 @ 232°C (450°F)			

\* Transportation: The material is stable during transportation at temperatures below 25°C (77°F) and 50% RH.

### TYPICAL PROPERTIES OF APPLIED FILM†

<b>Recommended Film Thickness</b>		Average	10 – 20 mils 15 mils
<b>TEST / REQUIREMENT</b>	<b>METHOD</b>	<b>CRITERIA</b>	<b>RESULT</b>
<b>Impact Resistance</b>	ASTM G-14	1/4x4x4 panel @ 25°C 1/8x4x4 panel @ 25°C	50 Lb / in Pass 120 Lb / in Pass
	CSA Z245.20-10, @-30°C (-22°F)	> 1.5 J	Pass
<b>Hot Water Resistance</b>	CSA Z245.20-10	75°C, 24 hr	Rating 1-2, Pass
<b>Taber Abrasion</b>	ASTM D4060 C17 wheels, 1 Kg	1000 Cycles 5000 Cycles	40 mg weight loss 134 mg weight loss
<b>Cathodic Disbondment</b>	CSA Z245.20-10 24 hr., 3.5 V., 65°C (150°F) 28 days, 1.5 V., 23°C (77°F) Strained C.D.	2 - 4 mm radius 3 - 5 mm radius No Cracking	Pass Pass Pass
<b>Shear Adhesion</b>	ASTM D D1002	4677 psi	

# Technical Data Sheet

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<b>Heat Distortion Resistance</b>	CSA Z245.20-10, Clause 12.7	$T_g = 109.5^{\circ}\text{C}$ (229°F)
<b>Penetration</b>	ASTM G-17 (140°F/96hr)	<4.0%

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

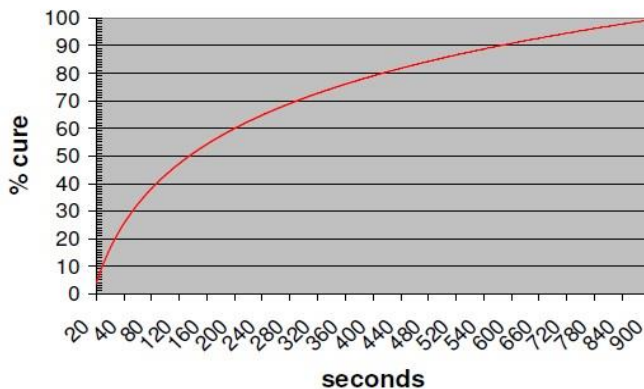
## TYPICAL ELECTRICAL PROPERTIES OF FILM

<b>Dielectric Strength:</b> ASTM D149-97	1260 volts/mil	<b>Volume Resistivity:</b> ASTM D257 (23°C/50% RH)	$1.16 \times 10^{15}$ ohm.cm
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## GENERAL APPLICATION PARAMETERS

- Grit blast to NACE Near-White specifications (Swedish Standard #Sa2½) and profile between 50µm (2 mils) and 112µm (4.5 mils).
- Use phosphoric acid/deionized water rinse if water soluble salt contamination is suspected.
- Preheat substrate to approximately 232°C (450°F) to 239°C (463°F)
- Apply Nap-Gard® 7-0014 powder to meet customer thickness specifications.
- Follow recommended cure schedule (see below).
- Cure should be verified by DSC or other methods.
- Electrically inspect for holidays. Repair with Nap-Gard® 7-1677 or 7-1868, NSF approved SP-7888.
- If girth welds are being coated, refer to Axalta's "Nap-Gard® Field Girth Weld Application Procedure."

200°C cure data for 7-0014



Always consult product Material Safety Data (MSDS) prior to handling.

**WARRANTY POLICY:** Axalta Powder Coating Systems USA, Inc. ("Seller") certifies that all coatings delivered to Customer in unopened factory filled containers meet all pertinent quality standards presented in Seller's current published literature. Since matters of surface preparation, application procedures, curing procedures and other local factors that affect coating performance are beyond Seller's control; Seller assumes no liability for coating failure other than to supply replacement material for coating material proven to be defective. Customer will determine suitability of this product for its use and thereby assumes all risks and liabilities in connection therewith. Seller will not be liable for any injuries, damages or other losses derived, directly or indirectly, from or as a consequence of Customer's use of the product. **SELLER DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, RELATING TO ITS PRODUCTS AND THEIR APPLICATION, INCLUDING BUT NOT LIMITED TO WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSES.**