



# Nap-Gard® 7-0010 Extra Tough Internal FBE

## Technical Information Sheet

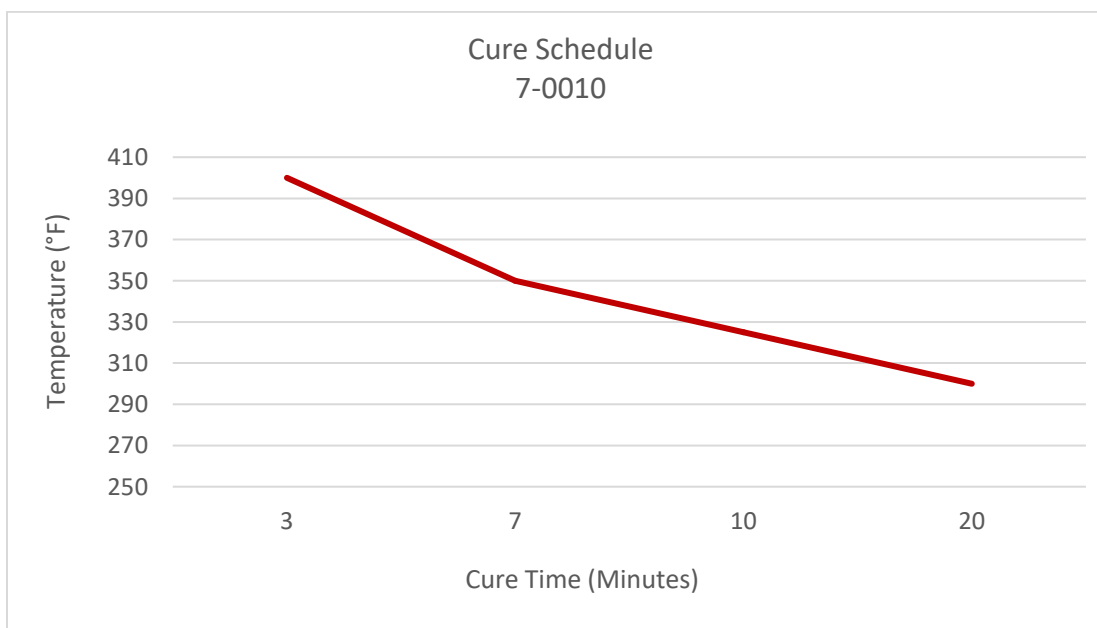
Nap-Gard® 7-0010 is an abrasion resistant fusion-bonded epoxy (FBE) coating designed for use as an internal lining on steel piping assets transporting aggressive media, including slurries and heavy crude oil with high sand content. 7-0010 is also recommended for rod-lift and “blast joint” applications.

### POWDER PROPERTIES

<b>Color</b>	Grey	<b>Theoretical Coverage</b>	122 ft <sup>2</sup> /lb./mil
<b>Specific Gravity</b>	1.57± .05	<b>Density</b> CSA Z245.20-22	1570 ± 50 g/L
<b>Gel Time</b> CSA Z245.20-22 @ 204°C (401°F)	55 ± 11 seconds	<b>Shelf Life*</b> @ 25°C (77°F) @ 50% RH	12 months

### STORAGE AND APPLICATION RECOMMENDATIONS

<b>Transportation and Storage</b>	This material is stable during transportation at temperatures below 25°C (77°F) and 50% RH. Always consult product Safety Data Sheet (SDS) prior to handling.		
<b>Recommended Cured Film Thickness</b>	Minimum	250µm (10 mils)	
	Maximum	500µm (20 mils)	
	Average	375µm (15 mils)	
<b>Cure Schedule</b>	Refer to the appropriate Nap-Gard® Application Guide for complete recommended application parameters.		



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## PERFORMANCE PROPERTIES OF APPLIED FILM†

TEST	METHOD	CRITERIA	RESULT
Flexibility	CSA Z245.20-22	@-30°C (-22°F)	Pass 2.5° PPD @ 500µm (20 mils)
Adhesion	SAMSS 091-99	No Peeling	Pass
Hot Water Soak Adhesion	CSA Z245.20-22	@88°C (190°F) 28 days	Rating 1
Taber Abrasion	ASTM D4060	CS17 wheel, 1 Kg weight 5000 cycles	45-55 mg removed
Heat Distortion Resistance	CSA Z245.20-22	Clause 12.7	T <sub>g3</sub> = 112°C ± 4°C

## CHEMICAL RESISTANCE†

### AUTOCLAVE

Standard	Duration	Temperature	Pressure	Phase	Results
SAMSS-091-18	24 hrs.	95°C (203°F)	3000 psi	<u>Gas Phase</u> 100% CO <sub>2</sub>	Pass all phases No blisters No cracking
				<u>Aqueous Phase</u> Wasia Water	No adhesion loss No delamination No swelling
SAMSS-091-18	24 hrs.	95°C (203°F)	3000 psi	<u>Gas Phase</u> 3% CO <sub>2</sub> 3% H <sub>2</sub> S Balance CH <sub>4</sub>	Pass all phases No blisters No cracking
				<u>Aqueous Phase</u> Formation Water Brine	No adhesion loss No delamination No swelling
CUSTOM SPEC	48 hrs.	38°C(100°F)	3000 psi	<u>Gas Phase</u> 100% N <sub>2</sub>	Pass all phases No blisters No cracking
				<u>Aqueous Phase</u> Tap Water	No adhesion loss No delamination No swelling

† Performance depends on many factors, including film thickness. Consult a Nap-Gard® Specialist for specific recommendations.