



# PE-70 & RC-70

NSF 61/600 Polyamide Epoxy Primer and Liner

## General Information

**Description** Self-priming, NSF 61/600 potable water tank lining; Single leg airless applied 70% solids polyamide epoxy. PE-70 may be used as a primer or intermediate coat for steel water tank interiors or exteriors and is available in a cold cure version for under 50°F application by substituting in the RC-70 part B (also covered by this technical data sheet)

**Generic Type** Polyamide Epoxy

**AWWA D102** ICS-1, ICS-2, ICS-3, ICS-4, OCS-5, OCS-6

**Available Colors** Grey, Tan, Red & White



### Available Kit Sizes

<b>A</b>	5 gallons PE-70 A	5 gallons PE-70 A	1 gallon PE-70 A	1 gallon PE-70 A
<b>B</b>	5 gallons PE-70 B	5 gallons RC-70 B	1 gallon PE-70 B	1 gallon RC-70 B
<b>kit</b>	10 gallon PE-70 kit	10 gallon RC-70 kit	2 gallon PE-70 kit	2 gallon RC-70 kit

### PE-70: NSF 61/600

For use with tanks greater than or equal to 1,000 gallons. Minimum Re-coat/Final Cure Time/temp prior to water immersion: 7 days at 70 deg F, up to 30 mils DFT, up to 10% thinning with K-1034. NSF-61/600 rated for pipe

### RC-70: NSF 61/600

For use with tanks greater than or equal to 4,000 gallons. Minimum Re-coat/Final Cure Time/temp prior to water immersion: 7 days at 50 deg F, up to 18 mils DFT, up to 10% thinning with K-1034. NSF-61/600 rated for pipe

### Performance Testing

<b>ASTM D4541 Adhesion to Carbon Steel</b>	1100 psi
<b>ASTM B117 Salt Fog (Ceramaprime / PE-70)</b>	11,000 hrs, no effect
<b>ASTM B117 Salt Fog (Indurazinc MC-67 / PE-70)</b>	11,000 hrs, no effect
<b>NACE TM0174 Water Immersion</b>	5 years, no effect

### Compatible Primers

Ceramaprime, Ceramaprime LV, PE-70, RC-70, TL-70, Indurazinc MC-67

### Compatible Topcoats

Perma-Clean 100, Perma-Clean 100 SL, PE-70, RC-70, TL-70, Indurethane 6600 Plus, Indurethane 6700, Permagloss, Novasafe

### Surface Preparation

All substrates clean and dry, free of dirt, oils, greases and contaminants

<b>Carbon Steel</b>	Abrasive blast to SSPC SP-6 with a 1-3 mil profile for atmospheric service, SSPC SP-10 for immersion (1-3 mil profile)
<b>Repairs, small areas</b>	SSPC SP-11 power tool to bare metal to produce an angular profile

### Shelf Life & Storage

2 year shelf life parts A and B, Store long term between 35 and 90°F, Recommend heating material to 70-75°F in the 24 hours prior to application

# PE-70 & RC-70

## Application Information

### Film Thickness

	minimum	maximum
wet film	4 mils	8 mils
dry film	3 mils	6 mils

### Coverage Rate

1122 ft<sup>2</sup>/gal at 1 mil  
136 ft<sup>2</sup>/gal at 5 mils

### Application Instructions

<b>Single Leg Airless Spray</b>	Use pump capable of 1,000 psi line pressure; 0.015-0.019 spray tip. Pre-heat material above 50°F prior to mixing and application.
<b>Brush and Roll</b>	Thin as needed with K-1034 or K-1070 at up to 10%

**Mix-Ratio** 1:1 by volume A:B (PE-70 part B or RC-70 part B)

### Pot Life

PE-70	< 50°F	50°F	75°F	90°F
	switch to RC-70	2.5 hours	4 hours	1 hour

RC-70	35°F	50°F	70°F	> 70°F
	8 hours	8 hours	2 hours	switch to PE-70

**Thinning** Up to 10% with K-1070 or K-1034

**Conditions** All steel temperatures must be ≥50°F above the dewpoint, ambient temperatures ≥50°F

	minimum	maximum
<b>Substrate temperature</b>	35°F (RC-70)	140 °F (PE-70)
<b>Material temperature</b>	60°F	90°F
<b>Humidity</b>	0% RH	95% RH

### RC-70 Cure

	35°F	50°F	70°F
<b>dry to handle</b>	18 hrs	10 hrs	6 hrs
<b>dry to topcoat min</b>	48 hrs	12 hrs	6 hrs
<b>dry to topcoat max</b>	1 year	1 year	1 year
<b>cured for NSF 600</b>	Heat to 50°F	1 day	1 day

### PE-70 Cure

	50°F	75°F	90°F
<b>dry to handle</b>	16 hrs	8 hrs	5 hrs
<b>dry to topcoat min</b>	12 hrs	12 hrs	8 hrs
<b>dry to topcoat max</b>	1 year	1 year	1 year
<b>cured for NSF 600</b>	Heat to 70°F	1 day	1 day

## Reference

### Physical Properties

PE-70		RC-70	
HAPS	0.06 lbs/gal	HAPS	0.06 lbs/gal
VOC	250 ± 2 g/L	VOC	264 ± 2 g/L
volume solids	70 ± 2%	volume solids	70 ± 2%
weight solids	84 ± 2%	weight solids	84 ± 2%

### Links

[Safety Data Sheet](#)  
[Ceramaprime Tech Data Sheet](#)  
[Permagloss Tech Data Sheet](#)  
[Induron Water Tank Page](#)  
[UL NSF-61/600 Listing for PE-70](#)  
[UL NSF-61/600 Listing for RC-70](#)