INDURON PROTECTIVE COATINGS
3333 Richard Arrington Jr. Blvd. N
Birmingham, AL 35234

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 50ºF 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

CLASSIFIED UL WATER QUALITY

Available Colors Grey, Tan, Red & White

Available Kit Sizes

A	5 gallons PE-70 A	5 gallons PE-70 A	1 gallon PE-70 A	1 gallon PE-70 A
B	5 gallons PE-70 B	5 gallons RC-70 B	1 gallon PE-70 B	1 gallon RC-70 B
kit	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

ASTM D4541 Adhesion to Carbon Steel	1100 psi
ASTM B117 Salt Fog (Ceramaprime / PE-70)	11,000 hrs, no effect
ASTM B117 Salt Fog (Indurazinc MC-67 / PE-70)	11,000 hrs, no effect
NACE TM0174 Water Immersion	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 dirts, oils, greases and contaminants

Carbon Steel	Abrasive blast to SSPC SP-6 with a 1-3 mil profile for atmospheric service, SSPC SP-10 for immersion (1-3 mil profile)
Repairs, small areas	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 90ºF, Recommend heating material to 70-75ºF 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^2/gal at 1 mil
424 ft^2/gal at 5 mils

Application Instructions

Single Leg Airless Spray	Use pump capable of 1,000 psi line pressure; 0.015-0.019 spray tip. Pre-heat material above 50ºF prior to mixing and application.
Brush and Roll	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

< 50ºF	50ºF	75ºF	90ºF
switch to RC-70	2.5 hours	4 hours	1 hour

RC-70

35ºF	50ºF	70ºF	> 70ºF
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 ≥5ºF above the dewpoint, ambient temperatures ≥50ºF

	minimum	maximum
Substrate temperature	35ºF (RC-70)	140 ºF (PE-70)
Material temperature	60ºF	90ºF
Humidity	0% RH	95% RH

RC-70 Cure

	35ºF	50ºF	70ºF
dry to handle	18 hrs	10 hrs	6 hrs
dry to topcoat min	48 hrs	12 hrs	6 hrs
dry to topcoat max	1 year	1 year	1 year
cured for NSF 600	Heat to 50ºF	1 day	1 day

PE-70 Cure

	50ºF	75ºF	90ºF
dry to handle	16 hrs	8 hrs	5 hrs
dry to topcoat min	12 hrs	12 hrs	8 hrs
dry to topcoat max	1 year	1 year	1 year
cured for NSF 600	Heat to 70ºF	1 day	1 day

Reference

Physical Properties

PE-70

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

RC-70

HAPS	0.06 lbs/gal
VOC	264 ± 2 g/L
volume solids	70 ± 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