INDURON PROTECTIVE COATINGS
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Birmingham, AL 35234

Ceramaprime

NSF 61/600 Ceramic Epoxy Primer

General Information

Description

NSF 61/600 potable water tank primer; Single leg airless applied 67% solids moisture cured urethane zinc. Indurazinc MC67 may be used as a primer for steel potable water tanks and is available in a low VOC version by substituting in Ceramaprime LV part B.

Generic Type

Polyamide Epoxy

AWWA D102

ICS-1, ICS-2, ICS-3, ICS-4, OCS-5, OCS-6

CLASSIFIED UL WATER QUALITY

Available Colors

Tan and White, all non LV colors share a common part B

Available Kit Sizes

A	5 gal Ceramaprime A	1 gal Ceramaprime A	1 gal Ceramaprime A
B	5 gal Ceramaprime B	1 gal Ceramaprime B	1 gal Ceramaprime LV B
Kit	10 gal Ceramaprime kit	2 gal Ceramaprime kit	2 gal Ceramaprime LV kit

NSF 61/600

For use with tanks greater than or equal to 30,000 gallons, not exceeding a surface area to volume ratio of 11.61 cm^2/L. 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

Performance Testing

ASTM B117 Salt Fog	3500 hrs, no effect
ASTM B117 Salt Fog	3500 hrs, minimal rust at scribe, no blistering or undercutting
ASTM B117 Salt Fog (Ceramaprime, PE-70, Indurethane 6600 Plus)	12,000 hrs no effect
ASTM D4541 Adhesion to Carbon Steel	2500 psi
ASTM D4541 Adhesion to Perma-Clean 100 topcoat	1900 psi at 30 day primer cure

Compatible Topcoats

Perma-Clean 100, Perma-Clean 10 SL, PE-70, RC-70, TL-70, Indurethane 6600 Plus, Permagloss, Novasafe

Surface Preparation

All substrates clean and dry, free of dirt, 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)
Concrete	Abrasive blast as per SSPC SP-13 to an ICRI CSP 3 or greater. Can be applied over Mortarchem and EFS 707
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 80-85ºF in the 24 hours prior to application

Ceramaprime

Application Information

Film Thickness

	minimum	maximum
wet film	6 mils	12 mils
dry film	3 mils	6 mils

Coverage Rate

834 ft^2/gal at 1 mil
167 ft^2/gal at 5 mils

Application Instructions

Single Leg Airless Spray	Remove all filters from spray system, use pump capable of 2,000 psi line pressure; 0.015-0.019 spray tip. Pre-heat material from 70-80ºF prior to mixing and application.
Plural Airless Spray	Remove all filters from spray system, use Graco XP-70 or equivalent heated plural spray unit with heated hose bundle and in-line static mixer. 0.015-0.019 spray tip. Heat A and B components to between 70 and 85ºF and spray at minimum line pressure to achieve fan
Brush and Roll	Thin as needed with K-1034 or K-1070 at up to 10%

Mix-Ratio

1:1 by volume A:B

Pot Life

50ºF	75ºF	90ºF
2.5 hours	4 hours	1 hour

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	50ºF	140 ºF
Material temperature	50ºF	120ºF
Humidity	0% RH	95% RH

Cure

	50ºF	75ºF	90ºF
dry to handle	3 hrs	90 min	1 hr
dry to topcoat minimum	3 hrs	45 min	30 min
dry to topcoat maximum	1 year	1 year	1 year
cured for NSF 600 service	Heat to 75ºF	7 days	7 days

Reference

Physical Properties

HAPS	1.13 lbs/gal
VOC	336 g/L
volume solids	52 ± 1%
weight solids	66 ± 1%

Links

Safety Data Sheet
Ceramaprime LV Tech Data Sheet
Perma-Clean 100 Data Sheet
Induron Water Tank Coatings Page
UL NSF-61/600 Listing for Ceramaprime