



# Ceramaprime LV

NSF 61/600 Ceramic Epoxy Primer

## General Information

**Description** NSF 61/600 low VOC potable water tank primer; Single leg airless applied 51% solids ceramic epoxy. Ceramaprime LV may be used as a primer for steel or concrete water tanks as a low VOC substitute for Ceramaprime in OTC II regulated areas.

**Generic Type** Polyamide Epoxy

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

**Available Colors** Tan and White, all LV colors share a common part B



### Available Kit Sizes

<b>A</b>	1 gallon Ceramaprime A
<b>B</b>	1 gallon Ceramaprime LV B
<b>Total Kit Volume</b>	2 gallon kit 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<sup>2</sup>/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

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

<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>Concrete</b>	Abrasive blast as per SSPC SP-13 to an ICRI CSP 3 or greater. Can be applied over Mortarchem and EFS 707
<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 80-85°F in the 24 hours prior to application

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## Application Information

### Film Thickness

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

### Coverage Rate

818 ft<sup>2</sup>/gal at 1 mil  
164 ft<sup>2</sup>/gal at 5 mils

### Application Instructions

<b>Single Leg Airless Spray</b>	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 70-80°F prior to mixing and application.
<b>Plural Airless Spray</b>	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 85°F and spray at minimum line pressure to achieve fan
<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

### Pot Life

50°F	75°F	90°F
2.5 hours	4 hours	1 hour

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

### Conditions

All steel temperatures must be ≥5°F above the dewpoint, ambient temperatures ≥50°F

	minimum	maximum
<b>Substrate temperature</b>	50°F	140 °F
<b>Material temperature</b>	50°F	120°F
<b>Humidity</b>	0% RH	95% RH

### Cure

	50°F	75°F	90°F
<b>dry to handle</b>	3 hrs	90 min	1 hr
<b>dry to topcoat minimum</b>	3 hrs	45 min	30 min
<b>dry to topcoat maximum</b>	1 year	1 year	1 year
<b>cured for NSF 600 service</b>	Heat to 75°F	7 days	7 days

## Reference

### Physical Properties

HAPS	0.570 lbs/gal
VOC	197 g/L
volume solids	51 ± 1%
weight solids	65 ± 1%

### Links

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