



**General Information**

**Description** NSF 61/600 potable water tank lining; Plural applied 100% solids ceramic epoxy. Permaclean 100 may be used as a liner for steel or concrete water tanks and may also be specified for immersion service in treatment plant services such as clarifiers or aeration basins

**Generic Type** Aliphatic Amine Epoxy

**AWWA D102** ICS-5

**Available Colors** Blue and White, all colors share a common part A



**Available Kit Sizes**

<b>A</b>	45 gallons	300 mL cartridge
<b>B</b>	45 gallons	300 ml cartridge
<b>Total Kit Volume</b>	90 gallon kit	600 mL cartridge kit

**NSF 61/600** For use with tanks greater than or equal to 500,000 gallons, not exceeding a surface area to volume ratio of 4.6 cm<sup>2</sup>/L. Minimum Re-coat/Final Cure Time/temp prior to water immersion: 72 hours at 60 deg F, up to 150 mils DFT

**Performance Testing**

<b>ASTM D2794 Direct Impact</b>	80 in-lbs
<b>ASTM D4541 Adhesion to Ceramaprime primer</b>	1900 psi at 30 day primer cure
<b>NACE TM0174 Water Immersion at 120°F</b>	3 years no effect
<b>NACE TM0174 Water Immersion at 75°F</b>	3 years no effect
<b>NACE TM0174 Water Immersion in 1% sodium hypochlorite</b>	1 year, only color loss
<b>ASTM B117 Salt Fog</b>	10,000 hrs no effect

**Compatible Primers**

Ceramaprime, Ceramaprime LV, Ceramaprime CC, Indurazinc MC-67, PE-70, *direct to metal*

**Surface Preparation**

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

<b>Carbon Steel</b>	Abrasive blast to SSPC SP-10 with a 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

# Perma-Clean 100

## Application Information

### Film Thickness

	minimum	maximum
wet film	15 mils	50 mils
dry film	15 mils	50 mils

### Coverage Rate

1604 ft<sup>2</sup>/gal at 1 mil  
45 ft<sup>2</sup>/gal at 35 mils

### Application Instructions

<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. 0.027-0.031 spray tip. Heat A and B components to between 90 and 110°F and spray at minimum line pressure to achieve fan
<b>Cartridge Repair Kit</b>	Tape off-area to be repaired, pump cartridge five times into a waste cup to initiate mixing prior to applying material to substrate. <i>See cartridge repair kit data sheet.</i>
<b>Brush and Roll</b>	Recommended for small areas only

### Mix-Ratio

1:1 by volume A:B

### Pot Life

50°F	75°F	90°F
30 mins	15 mins	5 mins

### Thinning Conditions

Do not thin, use K-1070 or K-1034 for cleanup

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>	90°F	120°F
<b>Humidity</b>	0% RH	95% RH

### Cure

	35°F	50°F	75°F	90°F
<b>dry to handle</b>	heat to 50°F	6 hrs	3 hrs	1 hr
<b>dry to topcoat</b>	heat to 50°F	12 hrs	8 hrs	5 hrs
<b>cured for water immersion</b>	heat to 50°F	7 days	24 hrs	24 hrs
<b>cured for NSF 600 service</b>	heat to 60°F	heat to 60°F	72 hrs	72 hrs

## Reference

### Physical Properties

HAPS	0 g/L
VOC	13 g/L
volume solids	100%
weight solids	100%

### Links

[Safety Data Sheet](#)  
[Cartridge Repair Kit Tech Data Sheet](#)  
[Ceraprim Data Sheet](#)  
[Indurazinc MC 67 Data Sheet](#)  
[Induron Water Tank Coatings Page](#)  
[UL NSF-61/600 Listing for Perma-Clean 100](#)