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# Perma-Clean 100 Cartridge Repair Kit

NSF 61/600 Ceramic Epoxy Tank Lining

## General Information

**Description** 100% solids NSF 61/600 potable water tank lining repair kit designed for touch ups, repairs, and small area jobs on concrete and carbon steel.

See [Perma-Clean 100](#) data sheet for large area applications

**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>	300 mL cartridge
<b>B</b>	300 ml cartridge
<b>Total Kit Volume</b>	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 @ 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 cartridges to 80-85°F in the 24 hours prior to application

# Perma-Clean 100 Cartridge Repair Kit

## 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>Cartridge Repair Kit</b>	<p>Pre-heat cartridge to approximately 85-100°F just prior to application. Load Perma-Clean 100 A and B cartridges into 600 mL 1:1 dual caulk tube.</p> <p>Tape off-area to be repaired and abrade existing area to specified surface prep, continuing abrasion onto surrounding sound coating up to the tape line.</p> <p>Pump cartridge five times into a waste cup until material is a homogenous color to ensure proper mixing prior to applying material to substrate. Apply repair material over the bare steel repair area and out to overlapping the tape. Smooth material with a roller or trowel to specified thickness. Pull tape after dry to handle time to produce a “hard cut” transition</p> <p><i>See Permaclean 100 data sheet for large area applications</i></p>
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### 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](#)  
[Perma-Clean 100 Tech Data](#)  
[Ceramaxprime Tech Data](#)  
[Indurazinc MC 67 Tech Data](#)  
[Induron Water Tank Coatings Page](#)  
[UL NSF-61/600 Listing for Perma-Clean 100](#)