



## 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** Polyamidoamine 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    | 5 gallons     | 300 mL cartridge     |
| <b>B</b>                | 45 gallons    | 5 gallons     | 300 ml cartridge     |
| <b>Total Kit Volume</b> | 90 gallon kit | 10 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](#)