

General Information

Description NSF 600 potable water tank lining; Single-leg applied 100% solids ceramic epoxy. Permaclean 100 SL 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-3

Available Colors White, all colors share a common part A, shares part A with Perma-Clean 100

Available Kit Sizes

A	5 gallons
B	5 gallons
Total Kit Volume	10 gallon kit

NSF 61/600 This product is certified for 10,000 gallons and greater tanks, not exceeding the maximum surface area per volume ratio of 36.8 sq.cm/L

Performance Testing

ASTM D4541 Pneumatic Adhesion to Ceramaprime Primer	2100 psi, 14 day primer cure, 1800 psi 30 day primer cure
NACE TM0174 Procedure B Brine immersion at 120°F	6 months, no effect
NACE TM0174 Procedure B 12.5% Sodium Hypochlorite Bleach Immersion at 120°F	72 hrs discoloration only

Compatible Primers

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

Surface Preparation

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

Carbon Steel	Abrasive blast to SSPC SP-10 with a 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 90°F, Recommend heating material to 50-70°F in the 24 hours prior to application for ease of use

Perma-Clean 100 SL

Application Information

Film Thickness

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

Coverage Rate

1604 ft²/gal at 1 mil
45 ft²/gal at 35 mils

Application Instructions

Single Leg Airless Spray	Remove all filters from spray system, use pump capable of 2,000 psi line pressure; 0.027-0.031 spray tip. Spray material at 90-105°F as measured at the gun. Graco Viscon in-line heater recommended. Insulated or heated hoses recommended for hose runs over 100 ft and cool ambient temperatures.
Perma-Clean 100 Cartridge Repair Kit	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>
Brush and Roll	Recommended for small areas only

Mix-Ratio

1:1 by volume A:B, pre-mix components prior to combining

Pot Life

50°F	75°F	90°F
3 hrs	1.5 hrs	45 mins

Thinning

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

Conditions

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

	minimum	maximum
Substrate temperature	40°F	140 °F
Material temperature	40°F	120°F
Humidity	0% RH	95% RH

Cure

	50°F	70°F	90°F
dry to topcoat min	24 hrs	12 hrs	8 hrs
dry to topcoat max	30 days	30 days	7 days
cured for water immersion	7 days	3 days	2 days

Reference

Physical Properties

HAPS	0 g/L
VOC	20 g/L
volume solids	100%
weight solids	100%

Links

[Safety Data Sheet](#)

[UL Listing for Perma-Clean 100 SL](#)