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# Novasafe

Ceramic Epoxy Novolac Tank Lining

## General Information

**Description** Heavy-grade industrial tank lining; Novasafe may be used as a liner for steel or concrete wastewater tanks and may also be specified for immersion service in other treatment plant services with heavy chemical stress

**Generic Type** Novolac Epoxy Liner

**Available Colors** Black

**Available Kit Sizes**

<b>A</b>	4 gallons
<b>B</b>	1 gallons
<b>Total Kit Volume</b>	5 gallon kit

**Chemical Services** Mineral acids, bases, high hydrogen sulfide environments, wastewater influent, secondary containment of concentrated hypochlorites and acids. Water treatment and wastewater treatment plant assets including:

- Primary and Secondary Clarifiers                      Aeration Basins
- Chlorine Contact Chambers                              Water and Wastewater Influent Channels

Contact Induron Technical Service for specific concentration based chemical immersion service recommendations at 1-800- 324-9584

**Performance Testing**

<b>ASTM D4541 Adhesion to SSPC SP-10 blasted Carbon Steel</b>	1550 psi average at 14 days
<b>ASTM D7234 Adhesion to ICRI CSP 3 Concrete</b>	1035 psi average at 14 days

**Compatible Primers**

Ceramaprime, Ceramaprime LV, Ceramaprime CC, Indurazinc MC-67, PE-70, E-Bond 100 *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

## Application Information

### Film Thickness

	minimum	maximum
wet film	29	47
dry film	25	40

### Coverage Rate

1363 ft<sup>2</sup>/gal at 1 mil  
34 ft<sup>2</sup>/gal at 40 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 component to between 70 and 85 °F, do not heat part B above 75°F. Spray at minimum line pressure to achieve fan
<b>Single Leg Airless Spray</b>	Remove all filters from spray system, use pump capable of 2,000 psi line pressure; 0.027-0.031 spray tip. Do not heat material above 85°F
<b>Brush and Roll</b>	Recommended for small areas only. Use K-1070 or K-1034 at up to 10% by volume for stripe coating.

### Mix-Ratio

4:1 A:B

### Pot Life

50°F	75°F
90 min	50 min

### Thinning Conditions

Normally not required, use K-1070 or K-1034 at up to 10% for stripe coating and cleanup  
All steel temperatures must be ≥50°F above the dewpoint, ambient temperatures ≥50°F

	minimum	maximum
<b>Substrate temperature</b>	50°F	120°F
<b>Material temperature</b>	60°F	85°F
<b>Humidity</b>	0	95

### Cure

	50°F	75°F	90°F
<b>dry to handle</b>	7 hrs	3 hrs	2 hrs
<b>dry to topcoat minimum</b>	3 hrs	1 hr	45 min
<b>dry to topcoat maximum</b>	30 days	30 days	14 days
<b>cured for immersion service</b>	14 days	7 days	7 days

## Reference

### Physical Properties

HAPS	0
VOC	180 g/L
volume solids	85
weight solids	89

### Links

[Safety Data Sheet](#)  
[MortarChem Tech Data](#)  
[Ceramaprime Tech Data](#)