



3333 Richard Arrington Jr. Blvd. N
Birmingham, AL 35234



Ceramasafe 90

Ceramic Epoxy Tank Lining

General Information

Description Heavy-grade industrial tank lining; Ceramasafe 90 may be used as a liner for steel or concrete non-potable water tanks, clarifiers and basins and may also be specified for immersion service in treatment plant services with heavy chemical stress

Generic Type Aliphatic Amine Epoxy Liner

Chemical Services High hydrogen sulfide environments, non-potable water influent, secondary containment of dilute acids, bases and oxidizers. Contact Induron Technical Service for specific recommendations at 1-800- 324-9584

Available Colors Black and Grey, all colors share a common part B

Available Kit Sizes

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

Performance Testing

ASTM B117 Salt Fog	12,000 hrs, no effect
NACE TM0174 1% Sodium Hypochlorite Immersion	1 year, only color loss
NACE TM0174 12% Sodium Hypochlorite Immersion	14 days, only color loss
NACE TM0174 Water Immersion	4 years no effect

Compatible Primers Ceramaprime, Ceramaprime LV, Ceramaprime CC, Indurazinc MC-67, PE-70, E-Bond 100
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 80-85°F in the 24 hours prior to application

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Application Information

Film Thickness

	minimum	maximum
wet film	22 mils	45 mils
dry film	20 mils	40 mils

Coverage Rate

1443 ft²/gal at 1 mil
36 ft²/gal at 40 mils

Application Instructions

Plural Airless Spray	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. 0.027-0.033 spray tip. Heat A and B components to between 85 and 110°F and spray at minimum line pressure to achieve fan
Single Leg Airless Spray	Remove all filters from spray system, use pump capable of 2,000 psi line pressure; 0.027-0.033 spray tip. Pre-heat material from 90-110°F prior to mixing and application. Graco Viscon in-line heater recommended
Brush and Roll	Thin with K-1070 or K-1034 at up to 10% for stripe coating and small areas

Mix-Ratio

1:1 by volume A:B

Pot Life

50°F	75°F	90°F
3 hours	45 minutes	90 minutes

Thinning Conditions

Use K-1070 or K-1034 at up to 10% for brush and roll only

All steel temperatures must be ≥50°F above the dewpoint, ambient temperatures ≥50°F

	minimum	maximum
Substrate temperature	50°F	140 °F
Material temperature	90°F	120°F
Humidity	0% RH	95% RH

Cure

	50°F	75°F	90°F
dry to handle	32 hrs	16 hrs	8 hrs
dry to topcoat minimum	24 hrs	12 hrs	12 hrs
dry to topcoat maximum	7 days	7 days	7 days
cured for immersion service	7 days	7 days	5 days

Reference

Physical Properties

HAPS	0.005 lbs/gal
VOC	82 g/L
volume solids	90 ± 2%
weight solids	87 ± 2%

Links

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