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Ruff-Stuff 2100

Coal Tar Ceramic Epoxy Tank Lining

General Information

Description High build industrial coal tar epoxy lining; Ruff-Stuff 2100 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 Coal Tar Epoxy Polyamide

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

Available Colors Black

Available Kit Sizes

A	4.5 gallons
B	0.5 gallons
Total Kit Volume	5 gallon kit

Performance Testing

ASTM B117 Salt Fog	3,600 hrs no undercutting or blistering, scribed
NACE TM0174 Water Immersion	8,000 hrs no effect
NACE TM0174 25% Sodium Hydroxide Immersion at 140°F	8,000 hrs no effect
ASTM D2734 Direct Impact	120 in·lbs

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

Compatible Topcoats Ruff-Stuff 2100, *contact Induron technical service for other topcoats at 1-800- 324-9584*

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

Carbon Steel	Abrasive blast to SSPC SP-6 with a 1-3 mil profile for atmospheric service, SSPC SP-10 for immersion (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	10 mils	43 mils
dry film	7 mils	30 mils

Coverage Rate

1123 ft²/gal at 1 mil
32 ft²/gal at 35 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%

Mix-Ratio

9:1 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 ≥5°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	105°F
dry to handle	24 hrs	12 hrs	6 hrs	4 hrs
dry to topcoat minimum	72 hrs	18 hrs	12 hrs	8 hrs
dry to topcoat maximum	30 days	30 days	30 days	7 days
cured for immersion service	14 days	7 days	5 days	3 days

Reference

Physical Properties

HAPS	0.005 lbs/gal
VOC	82 g/L
volume solids	70 ± 2%
weight solids	73 ± 2%

Links

[Safety Data Sheet](#)
[Mortarchem Data Sheet](#)
[Ceramaprime Data Sheet](#)
[Induron Treatment Plant Page](#)