

2870 CRESTWOOD BLVD. STE B IRONDALE, AL 35210 205-957-0020



PRODUCT DESCRIPTION

AVAILABLE KIT SIZES

Defender Prime NSF 61/600 potable water tank primer; Single leg airless applied 67% solids moisture cured urethane zinc.

GENERIC TYPE	
Polyamide Epoxy	
AWWA D102	WATER QUALITY
ICS-1, ICS-2, ICS-3, ICS-4, OCS-	-5, OCS-6
AVAILABLE COLORS	
Beige	

AVAILABLE KIT SIZES			
А	5 gal Defender Prime A	1 gal Defender Prime A	1 gal Defender Prime A
В	5 gal Defender Prime B	1 gal Defender Prime B	1 gal Defender Prime LV B
Kit	10 gal Defender Prime kit	2 gal Defender Prime kit	2 gal Defender Prime LV kit

NSF 61/600

For use with tanks greater than or equal to 30,000 gallons, not exceeding a surface area to volume ratio of 11.61 cm2 /L. Minimum Re-coat/Final Cure Time/temp prior to water immersion: 7 days at 70 deg F, up to 30 mils DFT, up to 10% thinning with Defender Reducer.







Defender Prime - Ceramic Epoxy Primer

TECHNICAL DATA SHEET

PERFORMANCE TESTING

PERFORMANCE TESTING	
ASTM B117 Salt Fog	3500 hrs, no effect
ASTM B117 Salt Fog	3500 hrs, minimal rust at scribe, no blistering or undercutting
ASTM B117 Salt Fog (Defender Prime, PE-70, Indurethane 6600 Plus)	12,000 hrs no effect
ASTM D4541 Adhesion to Carbon Steel	2500 psi
ASTM D4541 Adhesion to Perma-Clean 100 topcoat	1900 psi at 30 day primer cure

COMPATIBLE TOPCOATS

AR40, AR45, AR50, AR55, AR56, AR57, AR58, AL70, EZ25.

SURFACE PREPARATION

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

SURFACE PREPARATION		
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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FIL,M THICKNESS

	MINIMUM	MAXIMUM	COVERAGE RATE
Wet film	6 mils	12 mils	834 ft2 /gal at 1 mil
Dry film	3 mils	6 mils	167 ft2 /gal at 5 mils

APPLICATION INSTRUCTIONS

Single Leg Airless Spray

Remove all filters from spray system, use pump capable of 2,000 psi line pressure; 0.015-0.019 spray tip. Pre-heat material from 70-80°F prior to mixing and application.

Plural Airless Spray

Remove all filters from spray system, use Graco XP70 or equivalent heated plural spray unit with heated hose bundle and inline static mixer. 0.015-0.019 spray tip. Heat A and B components to between 70 and 85°F and spray at minimum line pressure to achieve fan.

Brush and Roll

Thin as needed with Defender Reducer at up to 10%.

MIX RATIO

1:1 by volume A:B

POT LIFE

50°F	75°F	90°F
2.5 hours	4 hours	1 hour

THINNING

Up to 10% with Defender Reducer or K-1034





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CONDITIONS

All steel temperatures must be \geq 5°F above the dewpoint, ambient temperatures \geq 50°F.

	MINIMUM	М	AXIMUM	
Substrate temperature	50°F	14	10 °F	
Material temperature	50°F	12	20°F	
Humidity	0% RH	95	5% RH	
CURE	50°	75°F	90°F	
dry to handle	3 hrs	90 min	1 hr	
du to topoost minimum	2 h ro	4E min	20 min	

dry to topcoat minimum	3 hrs	45 min	30 min
dry to topcoat maximum	1 year	1 year	1 year
cured for NSF 600 service	Heat to 75°F	7 days	7 days

PHYSICAL PROPERTIES

HAPS	1.13 lbs/gal
VOC	336 g/L
volume solids	52 ± 1%
weight solids	66 ± 1%

