

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**

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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%

