



Warren Safe-T Plus™ Epoxy Spray System

Single Coat, Rapid-Return-to-Service Epoxy

A two part, virtually 100% solids, single coat epoxy coating system formulated for spray application with plural component metering/mix equipment.

CHARACTERISTICS: Formulated with special additives and modifiers to enhance the water resistance, chemical resistance, and bond strength. Suitable for use in fuel, seawater, bilge, seawater ballast, boiler feedwater and interior/exterior structures.

ADVANTAGES:

- NAVSEA Qualified
- True Single Coat Application
- Rapid Return to Service
- 100% Solids, Low VOC
- Excellent Cure at Low Temperatures
- Superior Chemical Resistance Properties
- High Humidity Cure
- Ready-To-Use, No Induction Time, No Thinning Required



TYPICAL PROPERTIES

Liquid Properties:

Mix Ratio	2:1 by volume
Viscosity (ASTM 3278 Method A)	5000-10,000 cps
Volume Solids (ASTM D 2697)	99.5-100%
Weight Solids (ASTM D1475)	99.5-100%
Thixotropic Index	4.0-5.0
Specific Gravity	~1.12
Flash Point (Closed Cup)	>235°F
Color	off white, buff, grey and blue
Gel time (200g @ 77°F)	27 min.
Thin Film Set (@ 77°F)	2 hours
Thin Film Set (@ 40°F)	8 hours
Shelf Life	1 year (unopened, dry, cool)
Storage Requirements	40-90°F
VOC (EPA Method 24)	<0.54 lb./gal.; 64.7 g/L
Coverage (@ 20 mils)	80 ft. ²
Coverage (@ 30 mils)	60 ft. ²

Physical Properties:

(1/8" Casting)

Tensile Strength (ASTM D638-86)	7000 psi
Glass Transition Temperature (ASTM D3418-82)	151°F (avg.)
Tensile Elongation @ Break	4.8%
Shore D Hardness	> 80

Chemical Resistance:

(28 Day Immersion)

Toluene	0.99
Ethanol	4.68
10% Acetic Acid	3.85
70% Sulfuric Acid	0.13
50% Sodium Hydroxide	0.09
Distilled Water	1.11
Methanol	9.55
Xylene	0.69
Butyl Cellosolve	1.18
Methyl Ethyl Ketone	11.19
10% Lactic Acid	3.24
Bleach	0.93
1,1,1 Trichloroethane	0.43
10% Nitric Acid	2.05
30% Nitric Acid	4.17

QUALIFICATIONS/ CERTIFICATIONS:

Navy: MIL-PRF-23236 Type VII, Class 5/18, 7/18 and 11/18 Grade C. For Navy Standard 009-32 applications refer to ASTM F-718 application data sheet.

NSF: Certified to Standard NSF-61 Navy-S-301 Epoxy Spray System Single Coat, Rapid Cure.



PPG Protective & Marine Coatings

Exclusive Distributor for
Warren Environmental Marine Coatings Safe-T Plus

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