

SELECTION & SPECIFICATION DATA

Generic Type	Epoxy Phenolic-Novolac Blend		
Description	A high performance immersion-grade coating system which has excellent resistance to wet/ dry cycling conditions at elevated temperatures. It is typically used on hot steel substrates under insulation operating continuously up to 400°F, 204°C. It has excellent chemical resistance properties to handle the corrosive effects of wet insulation under thermal cycling conditions. This coating is recommended for NACE SP0198 Standard Practice for coatings to control corrosion under insulation (CUI) system numbers CS-1, CS-3, CS-4, SS-1, SS-2, and SS-3.		
Features	 Continuous temperature resistance to 400°F (204°C) Very good flexibility Excellent overall chemical resistance Very good abrasion resistance Easily applied by spray Acceptable for use over stainless steels High solids, low VOC formula 		
Color Red 0500, Grey 0700, Grey J700 and Aluminum C901			
Finish	Semi-Gloss		
	4 - 8 mils (102 - 203 microns) per coat		
Dry Film Thickness	Two coats are recommended for optimum performance.		
Solids Content	By Volume 84% +/- 2%		
Theoretical Coverage Rate	age1347 ft²/gal at 1.0 mils (33.1 m²/l at 25 microns)337 ft²/gal at 4.0 mils (8.3 m²/l at 100 microns)Rate168 ft²/gal at 8.0 mils (4.1 m²/l at 200 microns)Allow for loss in mixing and application.		
VOC Values	As Supplied : 1.00 lbs/gal (119 g/l) Thinner 2 : 24 oz/gal: 2.00 lbs/gal (240 g/l)		
Under Insulation Resistance	Continuous: 400°F (204°C) Non-Continuous: 450°F (232°C)		

SUBSTRATES & SURFACE PREPARATION

General	All surfaces must be thoroughly cleaned to remove dirt, grease, mill scale, loose rust and any other contaminants that can reduce adhesion via SSPC-SP1 solvent cleaning with recommended surface preparation.
Ferrous Metal	SSPC-SP10 (NACE No.2) to obtain a 1.5-3 mil mil (37-75 micron) blast profile. Weld slag must be removed. Striping of properly prepared welds with primer by brush or spray is recommended.
Stainless Steel	Surface profile should be a dense angular 1-3 mils and is best achieved through abrasive blasting. Remove all contaminants that would interfere with the performance of stainless steel for the intended service such as, but not limited to, imbedded iron or chlorides.





MIXING & THINNING

Mixing	Power mix components separately, then combine and mix to homogeneity. DO NOT MIX PARTIAL KITS. Requires short 15 minute sweat-in time.
Thinning	May be thinned up to 20% (24 oz/gal) with Thinner #2. Use of thinners other than those supplied or approved by Carboline may adversely affect product performance and will void product warranty whether express or implied.
Ratio	2:1 by volume (Part A to Part B)
Pot Life	1 hours @75°F and less at higher temperature. Pot life ends when coating loses body and begins to sag.

APPLICATION EQUIPMENT GUIDELINES

Listed below are general equipment guidelines for the application of this product. Job site conditions may require modifications to these guidelines to achieve the desired results.

Spray Application (General)	The following spray equipment has been found suitable and is available from WIWA® or other equipment manufacturers.	
Conventional Spray	 Spray Pressure pot equipped with dual regulators, 3/8" ID minimum material hose, 0.055-0.070" fluid tip with appropriate air cap. Adjust air pressure to approximately 50 psi at the gun and provide 10-20 psi of pot pressure. 	
Airless Spray	Pump Ratio: 30:1 (min)* GPM Output: 2.5 (min) Material Hose: 3/8" ID (min) Tip Size: 0.017-0.021" Output PSI: 1500-2300 Filter Size: 60 mesh *PTFE packings are recommended and available from the pump manufacturer. Apply a "mist"	
	bonding pass. Allow to flash dry about 1 min and then apply criss-cross multi-passes maintaining a wet film. Repeat fast passes until the wet film thickness desired is achieved.	
Brush & Roller (General)	Use a natural bristle brush applying in full strokes. Avoid rebrushing. If rolled, use a short nap roller with solvent resistant core. Avoid rerolling.	
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APPLICATION CONDITIONS

Condition	Material	Surface	Ambient	Humidity
Minimum	50°F (10°C)	50°F (10°C)	50°F (10°C)	0%
Maximum	90°F (32°C)	110°F (43°C)	100°F (38°C)	85%

This product simply requires the substrate temperature to be above the dew point. Condensation due to substrate temperatures below the dew point can cause flash rusting on prepared steel and interfere with proper adhesion to the substrate. Special application techniques may be required above or below normal application conditions.



CURING SCHEDULE

Surface Temp.	Dry to Recoat	Final Cure General	Maximum Recoat
50°F (10°C)	36 Hours	14 Days	30 Days
60°F (16°C)	24 Hours	10 Days	21 Days
75°F (24°C)	12 Hours	7 Days	14 Days
90°F (32°C)	6 Hours	5 Days	7 Days

These times are based on the recommended dry film thicknesses. Excessive film thickness or inadequate ventilating conditions after application require longer dry times and will cause premature failure in extreme cases. Excessive humidity or condensation on the surface during curing may result in surface haze or blush; any haze or blush should be removed by washing with water before recoating. After a 24 hour dry time at 75°F; force curing the material may be done during start-up provided the temperature does not exceed 1 degree/minute.

CLEANUP & SAFETY

Cleanup | Use Thinner #2 or Acetone.

Ventilation

When used in enclosed areas, thorough air circulation must be used during and after application until the coating is cured. The ventilation system should be capable of preventing the solvent vapor concentration from reaching the lower explosion limit for the solvents used. User should test and monitor exposure levels to insure all personnel are below guidelines. If not sure or if not able to monitor levels, use MSHA/NIOSH approved supplied air respirator.

Caution This product contains flammable solvents. Keep away from sparks and open flames. All electrical equipment and installations should be made and grounded in accordance with the National Electric Code. In areas where explosion hazards exist, workmen should be required to use non-ferrous tools and wear conductive and non-sparking shoes.

PACKAGING, HANDLING & STORAGE

Shelf Life	Part A Min: 12 months at 75°F(24°C) Part B Min: 6 months at 75°F(24°C)
Storage Temperature & Humidity	40°-110°F(4°-43°C) 0-90% Relative Humidity
Storage	Store indoors
Shipping Weight (Approximate)	1 Gallon Kit - 15 lbs (6.8 kg) 5 Gallon Kit - 75 lbs (34 kg)
Flash Point (Setaflash)	Part A: 24°F(-4.5°C) Part B: 41°F(5°C)

WARRANTY

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