

Technical Bulletin

ERSS 22597 Multi Purpose Blue-61



Description:	ERSS 22597, Multi Purpose Blue-61 is a thermosetting epoxy powder designed for both external and internal underground and subsea pipe line service. This product is offered in different gel times to allow various applications such as different pipe diameter, Tank, Pump, Valve and Fittings. This powder coating provides a combination of good physical and chemical resistance properties and corrosion resistance. The coatings is capable of withstanding continues operating temperatures of 225°F and designed for use on the inside steel pipe which in contact with corrosive oils, gases and waters. The maximum recommended film thickness is 20 mils for NSF applications. This product is also recommended for use as primer on multi-layer systems at a film thickness of 8-12 mils. This product meets the requirements of AWWA standards C116, C213, C550 and CSA Standard Z245.20-10.		
Powder Properties:	Specific Gravity: Theoretical Coverage: Shelf Life @ 25°C (77°F)	1.45±0.08 132 sq.ft/lb/mil 12 months	
Typical Properties of Applied Film	Recommended Film Thickness: (ASTM D523) Adhesion (ASTM D-3359-95A) Shear Adhesion (ASTM D1002) Penetration (ASTM G-17, 140°F for 96 hrs) Impact Resistance: (ASTM D2794-93; 0.032" Steel panel) Impact Resistance: (ASTM G-14; 1/4x4x4 panel at 25°C) Impact Resistance: (ASTM G-14; 1/8x4x4 panel at 25°C) Abrasion Resistance: (ASTM D4060; Taber CS-17; 1kg wt.) Flexibility (ASTM D522-93a @ 3-5 mils, Mandrel) Water Immersion (UL262; 90 days-NaCl, H2O, Na2CO3, C8H5KO4) Cathodic Disbondment (CSA Z245.20; 24 hrs, 3.5 Vdc., 65°C) Cathodic Disbondment (CSA Z245.20; Strained C.D.) Bending (CSA Z245.20; 3.0°/P.D@-22°F) Hardness (ASTM D2583, Barcol) Hot Water Resistance (CSA Z245.20; 167°F, 24 hrs) Typical gel time (D3451-92@204°C)	10-20 mil (Ave. 15 mil) 5B 5800-6200 PSI <4.0% 160/160 in/lbs. 50 in/lbs 120 in/lbs 20-30 mg loss/1000 cycles 1/8 in.dia, no fracture No blisters 2-4 mm radius-Pass 3-5 mm radius-Pass No Cracking-Pass Pass 61-63 Average Rating 1-2; Pass 105±25 sec	

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General Application	Surface Preparation: The surfaces must be clean until all oil, grease, water, inorganic salts and miscellaneous organic matter and free of contamination before abrasive blast cleaning. Blast clean to near white steel ensuring a proper profile for powder adhesion in accordance with SSPC-SP10 or to NACE#2, to achieve a uniform depth profile of 2.0-4.5 mils over surface of the bar. To this effect, a Profilometer can used to measure the depth of profile. After blasting, use an air knife to remove excess grit. Iron or Zinc Phosphate pre-treatment is recommended for optimum performance.		
Cure Schedules:	ERSS 22597, Multi Purpose Blue-61 can be applied to the recommended film thickness by electrostatic spraying or fluidized bed application. This product has broad range of cure schedule depending on the application. The cure should be verified by DSC or any other methods. Inspect for holidays. A final cure of 10 minutes at 400°F or 7 minutes at 425°F can be used for NSF applications.		
	Pipe: Pre-heat:	400 to 475°F	
	Apply ERSS 22597, Multi Purpose Blue-61 to meet the customer thickness requirements Because pipe cooling rates vary so significantly with wall thickness of pipe, no allowance I made for loss of heat from the pipe but this can be easily measured on the coating line an allowance made. The minimum post application curing temperature and the time to quence conform to the following cure schedule.		
	Follow recommended cure	e schedule as shown below	
		The products that require post-cure do not ne ng varies slightly depending on the applicatio	
Coating Repairs:	The components with excessive coating defects should be completely re-blasted to near –white finish and re-coated.		
Storage	away from any heat source	bse Blue-61 should be stored at temperature e. Reclaimed powder must be protected from ity. Please refer to the MSDS for safety infor	contamination and

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