



Technical Data Sheet

Matte Black II ERSM 10075

Description:	<i>ERSM 10075, Matte Black II</i> is a thermosetting powder coating based on an epoxy resin and is designed for the applications where the finished parts may be subject to continues heat exposures up to 150°F. This will maintain color and gloss after intermittent, repeated exposures to up to 200°F.	
Typical Applications:	Functional protective coatings, decorative applications, laboratory furniture, drum coatings.	
Typical Physical Properties:	Film Thickness (ASTM D)	1.5-2.5 mil
	Gloss 60°angle (ASTM D-523-89)	3-8
	Hardness (ASTM D-3363-92A)	3H-4H
	Flexibility (ASTM D-1737-89)	1/8 inch
	Adhesion (ASTM D-3359-95A)	5B (100%)
	Impact Direct/Indirect (ASTM D-2794-93)	140/140 in/lbs
	Acid Resistance (20% hydrochloric acid, 20% sulfuric acid 10% phosphoric acid, 10% nitric acid and 10% hydrofluoric acid)	Good
	Alkaline Resistance (ammonium hydroxide, calcium hydroxide potassium hydroxide and sodium hydroxide)	Good
	Salt Spray (ASTM B117)	1000 hrs < 3mm
	Specific Gravity	1.55±0.03
Application Data:	<i>ERSM 10075, Matte Black II</i> can be applied with either a corona electrostatic powder spray gun at between 60kv – 100 kv or a Tribo gun.	
Cure Schedules:	<i>ERSM 10075, Matte Black II</i> can be cured in a direct or indirect gas convection oven and an electric oven. Care must be taken with excess heat, as epoxies tend to discolor on over-bake. Standard Cure: 10 Minutes @ 375°F Peak Metal Temperature	
Storage:	<i>ERSM 10075, Matte Black II</i> should be stored at temperatures below 80°F in a dry area away.	
Notes:	All tests were performed on Bonderite 1000, iron phosphated panels with a nominal film thickness of 2 mils. Lower gloss levels may require higher cure temperatures or longer dwell times. Please refer to the MSDS for safety information.	

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