



Technical Data Sheet

ERSM 10075 Matte Black II

Description: *ERSM 10075, Matte Black II* is a thermosetting powder coating based on an epoxy resin and is designed for the applications where the finished parts may be subject to continuous heat exposure up to 150°F. This will maintain color and gloss after intermittent, repeated exposures to up to 200°F.

Typical Powder Properties	Specific Gravity (ASTM D5965-96, C)	1.55±0.05
	Theoretical Coverage	124 sq.ft/lb./mil
	Shelf life (at below 80°F in dry condition)	12 months

Typical Physical Properties:	Film Thickness	1.5-3.0 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.
	Salt Spray (ASTM B117, 1000 hrs, Bonderite 1000 panel)	Rating 7 (creepage)

Application Data: *ERSM 10075, Matte Black II* can be applied with either a corona electrostatic powder spray gun at between 60kv – 100 kv or a Tribo gun.

Cure Schedules: *ERSM 10075, Matte Black II* 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 @ 400°F Peak Metal Temperature

Storage: *ERSM 10075, Matte Black II* should be stored at temperatures below 80°F in a dry area away.

Notes: All tests were performed on Bonderite 1000, iron phosphate 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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