

SELECTION & SPECIFICATION DATA

Type	High Gloss Water-Reducible Alkyd
Description	ER 8100 is a high performance water-reducible alkyd coating for steel and ductile iron. This product is formulated to be low VOC and provide excellent corrosion protection.
Features	<ul style="list-style-type: none"> • Water based with low VOC's • Very stable • Environmentally friendly • Worker friendly • Oil in water technology • Adheres to marginally prepared substrates
Uses	<ul style="list-style-type: none"> • Frame and trailer coating • General corrosion protection • Architectural steel
Color	Black
Finish	High gloss
Primer	Self-priming
Dry Film Thickness	Minimum 1 mil per coat
Solids Content	By weight 29.85% By volume 26.99%
Theoretical Coverage Rate	522 sq ft per gallon at 1 mil DFT
Maximum Dry Temperature Resistance	150°F (65.5°C)
Limitations	Protect from freezing Not for immersion service

SUBSTRATES & SURFACE PREPARATION

All	Surfaces must be clean and dry. Remove all dirt, dust, oil and all other contaminants.
Previously Painted Surfaces	Consult with ErgonArmor Technical Service Department.

MIXING & THINNING

Mixing	Mix thoroughly before use.
Thinning	Do not thin.

APPLICATION EQUIPMENT GUIDELINES

Spray Application Guide	ER 8100 is supplied as spray consistency but can also be dipped, rolled, or brushed. ER 8100 can be sprayed with a wide variety of spray equipment.
Airless Spray	For best results under a wide variety of spray conditions, a 15:1 or higher ratio pump is recommended.
Tip Size	0.013 in orifice
Hose L/D	200 ft (max) x 3/8 in diameter
Whip L/D	6 ft (max) x 1/4 in diameter
Pump Packings	PTFE/UHMWP
Dry Film Thickness	1.0 – 2.0 mils
Brush/Roller	ER 8100 can be brush or roller applied.
Dip Tank	ER 8100 can be applied in dip tank.
Dry to Touch	2 – 4 hours at 77°F (25°C) Dry times are decreased with air movement over the coating.
Full Cure	24 – 48 hours at 77°F (25°C) Cure times are decreased with air movement over the coating.

CLEANUP & SAFETY

Cleanup	Tools and hands should be cleaned with soap and water before the emulsion sets. Dried material can be cleaned with mineral spirits. Spray equipment should be flushed with soapy water then fresh water for short periods of non-use. For longer periods of non-use, a final flush using mineral spirits is recommended.
Safety	Mixes and applications of this product present a number of hazards. Read and follow the hazard information, precautions and first aid directions on the individual product labels and safety data sheets before using.
Ventilation	Use in well ventilated areas.

PACKAGING, HANDLING & STORAGE

Shelf Life	9 months at 75°F when kept at recommended storage conditions and in original unopened containers.
Package Sizes	53 gallon drum – 489 lbs 275 gallon IBC tote – 2480 lbs 330 gallon IBC – 2976 lbs
Storage Temperature & Humidity	50° – 110°F (10°C – 37.7°C) Protect from freezing.

TYPICAL PHYSICAL PROPERTIES

Density	8.66 lbs/gal
Solids by weight	29.85%
Solids by volume	26.99%
Specific Gravity	1.08
Dry to Touch, 77°F (25°C)	150 minutes
Full Cure, 77°F (25°C)	12 – 24 hours
Viscosity, 77°F (25°C)	500 – 700 cps
Color	Black/High Gloss
VOC	1.95 lbs/gal
Flash Point	200°F (93.3°C)
pH	8.59

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