

SELECTION & SPECIFICATION DATA

Type	Non-fibered Asphalt Emulsion
Description	Ertech 1100 is a high performance water-based asphaltic emulsion coating for steel and ductile iron. Ertech 1100 can be used universally on the inside or outside diameter of ductile iron pipe as well as on steel. This product is formulated to yield little to no VOC and provide excellent corrosion protection.
Features	<ul style="list-style-type: none"> • Water-based with low VOCs • Very stable - no settling or separation • Environmentally friendly • Worker friendly • NSF approved
Uses	<ul style="list-style-type: none"> • Underbody coating • Pipe and castings coating • General corrosion protection • Moisture barrier
Color	Black
Finish	Glossy/matte
Primer	Self-priming
Dry Film Thickness (DFT)	1.5 – 4 mils per coat
Solids Content	53.4% by weight 48.93% by volume
Theoretical Coverage Rate	505 square feet per gallon at 1 mil DFT
Maximum Dry Temperature Resistance	300°F (149°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	Not required
Thinning	Generally not required. Product is thixotropic and will thin under shear. If a reduction in static viscosity is desired, agitate to thin. The addition of water is not recommended for spray application. When applying by dip application, the addition of water is recommended to maintain a solids level of 41% by weight in the dip tank.

Ratio Single component

APPLICATION GUIDELINES

Spray Application	Ertech 1100 is supplied as dip consistency but can also be sprayed, rolled, or brushed.
Airless Spray	For best results under a wide variety of spray conditions, a 30:1 or higher ratio pump is recommended.
Tip Size	A 0.019 in orifice tip size is recommended.
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 packings in the spray pump are recommended.
Brush/Roller	Ertech 1100 can be brush or roller applied.
Dip Tank	Ertech 1100 can be applied in dip tank.
Dry-To-Touch	30 minutes 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	6 months at 75°F (24°C) when kept at recommended storage conditions and in original unopened containers.
Package Sizes & Shipping Weights	5 gallon pail – 45 lbs (20 kg) 53 gallon drum – 517 lbs (234 kg) 275 gallon fiber tote – 2615 lbs (1186 kg) 275 gallon IBC tote – 2610 lbs (1183 kg)
Storage Temperature	50°F – 110°F (10°C – 43°C)
Storage	Protect from freezing. Do not store outside. Store indoors.

TYPICAL PHYSICAL PROPERTIES

Density ASTM D1475-13	9.44 lbs/gal
Solids by weight ASTM D5201-05a	53.4%
Solids by volume ASTM D5201-05a	48.93%
Specific gravity	1.13
Dry-to-touch, 77°F (25°C) ASTM D5895-96	30 minutes
Full cure, 77°F (25°C)	24 – 48 hours
Viscosity, 77°F (25°C) ASTM D2983-19	500 – 700 cps
Resistance to oils, greases & solvents	Poor
VOC ASTM D3960-05	<0.2 lbs/gal maximum

Rev 01/2020

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