

SELECTION & SPECIFICATION DATA

Generic Type	Non-Fibered Asphalt Emulsion
Description	ER 1100 is a high performance water-based asphaltic emulsion coating for steel and ductile iron. ER 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 VOC's • Very stable • Environmentally friendly • Worker friendly • NSF approved
Recommended Uses	<ul style="list-style-type: none"> • Under-body coating • Pipe and castings coating • General corrosion protection • Moisture barrier
Color	Black
Finish	Glossy/Matte
Primer	Self-priming
Dry Film Thickness	1.5 – 4 mils per coat
Solids Content	By weight 55.072% By volume 48.93%
Theoretical Coverage Rate	505 ft ² at 1 mil DFT
Dry Temp. Resistance	300°F
Limitations	Protect from freezing Not for immersion service

SUBSTRATES & SURFACE PREPARATION

General	Surfaces must be clean and dry. Remove all dirt, dust, oil and all other contaminant.
Previous Painted Surfaces	Consult with ErgonArmor Technical Service Department.

MIXING & THINNING

Mixing	Not required
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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 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 EQUIPMENT GUIDELINES

Listed below are general equipment guidelines for the application of this product. Job site conditions may require modification to these guidelines to achieve the desired results.

Spray Application Guide

ER 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" orifice tip size is recommended.

Hose L/D

200 ft (max) x 3/8" diameter

Whip L/D

6 ft (max) x 1/4" diameter

Pump Packings

Teflon/UHMWV packings in the spray pump are recommended.

Dry Film Thickness

2.5 – 4.0 mils

Brush/Roller

Ertech 1100 can be brush or roller applied.

Dip Tank

Ertech 1100 can be applied in dip tank.

Dry to Touch

2 – 4 hours at 77°F Dry times are decreased with air movement over the coating.

Full Cure

24 – 48 hours at 77°F 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

Read and follow all caution statements on this product data sheet and on the SDS for this product. Use care in handling solvents.

Ventilation

Use in well ventilated areas.

PACKAGING, HANDLING & STORAGE

Shelf Life

6 months at 75°F when kept at recommended storage conditions and in original unopened containers.

Shipping Weight (Approximate) 5 gallon pail – 45 lbs
 53 gallon drum – 517 lbs
 275 gallon fiber tote – 2615 lbs
 275 gallon IBC tote – 2610 lbs

Storage Temperature & Humidity 50° – 110°F
 ER 1100 must be stored in conditions that exceed freezing temperatures.

TYPICAL PHYSICAL PROPERTIES

Density, lbs/gal	9.44
Solids, % by weight	53.4
Solids, % by volume	48.93
Specific Gravity	1.13
Dry to Touch, 77°F	30 minutes
Full Cure, 77°F	24 – 48 hours
Viscosity, 77°F, cps	500 – 700
Color	Black
Resistance to Oils, Greases & Solvents	Poor
VOC	<0.2 lbs/gal max
Flash Point	N/A

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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 material safety data sheets before using. While all statements, technical information, and recommendations contained herein are based on information our company believes to be reliable, nothing contained herein shall constitute any warranty, express or implied, with respect to the products and/or services described herein and any such warranties are expressly disclaimed. We recommend that the prospective purchaser or user independently determine the suitability of our product(s) for their intended use. No statement, information or recommendation with respect to our products, whether contained herein or otherwise communicated, shall be legally binding upon us unless expressly set forth in a written agreement between us and the purchaser/user. Please contact ErgonArmor for further information at 877.982.7667 or FAX 601-933-3381. For all Terms and Conditions of Sale see ergonarmor.com.

ORDERING INFORMATION
 For additional information, prices, or to place an order, please contact your ErgonArmor sales representative. If you do not know the name of your sales representative, call 877-98ARMOR.