ARMORGUARD E-COAT

SUPERIOR COATING
SUPERIOR PROTECTION

Armorguard
E-Coat provides a durable epoxy armor on Ford Meter Box iron products that guards against corrosion

Benefits of Ford’s E-Coat Applied Epoxy Protection

Guarding iron products from corrosion, Ford® Armorguard E-Coat delivers the confidence you require for long-term direct bury applications.

Ford Armorguard Advantages

- Provides excellent abrasion and impact protection
- Inhibits rust creep under the coating as the coating bonds with the base metal
- Complete and uniform coverage even on hard-to-reach areas and cavities
- Internal and external threads can be covered
- The zinc phosphate pretreatment provides a second protective layer under the epoxy providing corrosion resistance even if the epoxy is damaged
- As a result of advanced polymers, the fins, parting lines and edges found on castings (common locations for corrosion to begin) have excellent corrosion protection
- The chrome, zinc and lead-free formulations are ideal for waterworks products
- Meets or exceeds rigorous salt spray and corrosion tests

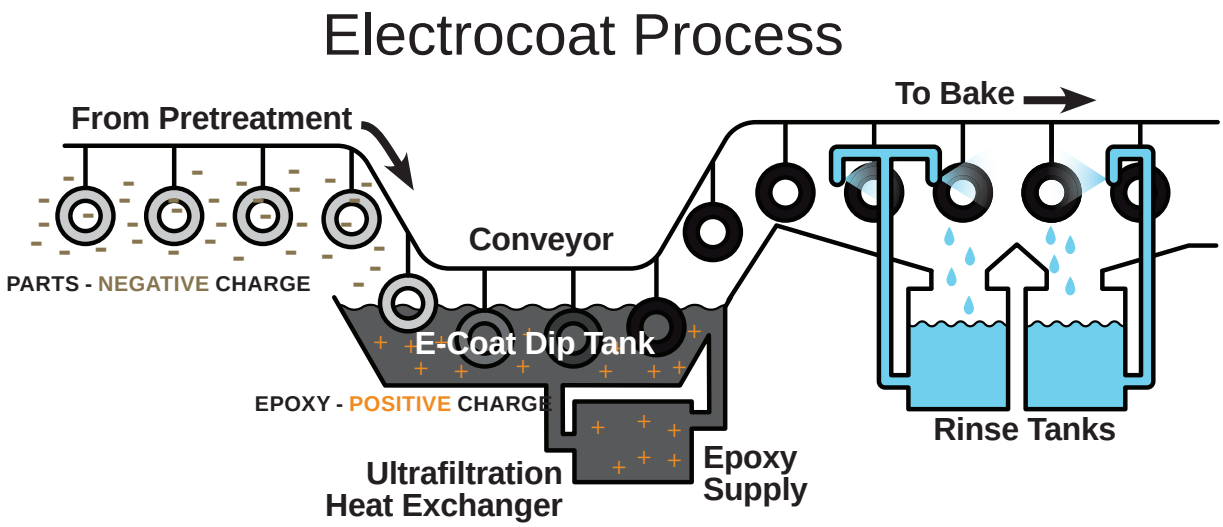
What is E-Coat Applied Epoxy?

Armorguard E-Coat is more than an epoxy coating, it represents a complete protection package of surface preparation, secondary conversion coating, and a primary epoxy top coating. E-Coat is an electrostatically applied, cationic epoxy coating that surrounds the iron component and provides lasting protection and durability.

The Electrocoat Process

E-Coat, also known as electrocoating, is a process that uses electrical current to drive positively charged epoxy onto a negatively charged metal part.

1. UNIQUE SURFACE PREPARATION - The pretreatment operation includes a thorough surface cleaning to remove contaminants and oils. Following cleaning, a conversion coating is applied to prepare the metal for epoxy bonding. The conversion coating acts as a separate protective layer.
2. ELECTROSTATICALLY APPLIED - Following pretreatment, the epoxy coating is electrostatically applied. The part is given a negative electrical charge and submerged in a tank of positively charged epoxy particles. The charged epoxy is drawn to the part and adheres to all exposed surfaces, including hidden and difficult-to-reach areas.



3. PROCESS COMPLETION - Once fully covered, the part is cleaned to remove excess epoxy and then oven-cured to transform the epoxy particles into a uniform protective shell. E-Coat's high quality black finish is resistant to damage from impact, abrasion and corrosion.

Want Security and Durability?
SPECIFY FORD ARMORGUARD E-COAT.

Sample Specification
For Armorguard E-Coat Applied Epoxy

The coating shall be an electrostatically applied, cationic epoxy to the appropriate thickness that provides protection against corrosion. All metal surfaces shall be extensively prepared and conditioned to encourage exceptional adhesion of the epoxy to all areas including recesses and edges. Pretreatment shall include zinc phosphate conversion coating. The epoxy coating shall exhibit excellent abrasion and impact resistance and shall resist the chipping and cracking associated with epoxy paints and powder applied epoxy coatings. Applied coating must meet the following performance and test criteria: Adhesion per ASTM D3359 (4B-5B), pencil hardness per ASTM D3363 (2H Min), humidity (1000 Hours) per ASTM D2247, and salt spray (1000 Hours) per ASTM B117. All test results meet or exceed ASTM standards and corrosion resistance requirements.

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