



## BEAM ULTRATECT DUCOR

### Description

Beam Ultratect Ducor is a satin gloss, high build epoxy mastic, two-package, VOC conforming product (2.1 lbs/gal)\* based on amido amine modified polyamide epoxy technology. The resulting highly durable coating delivers outstanding corrosion and chemical resistance.

### Suggested uses

As a high performance direct-to-metal (DTM) coating or topcoat on carbon steel, galvanized steel, stainless steel, aluminum, concrete, concrete block and wood where:

- Single coat applications up to 10 mills dry film thickness are required.
- Application will be made over damp surfaces and/or under conditions of high relative humidity.
- Excellent resistance to chemical and/or marine environments is required.
- Outstanding abrasion resistance and edge protection are required.

### Maximum Service Temperature:

- Up to 250 °F Continuous
- 300 °F Intermittent
- 100 °F Immersion

### Performance Properties

Abrasion & Mechanical	Excellent	Ammonia	Excellent
Alkalis	Excellent	Acids	Very Good
Humidity	Excellent	Salts	Excellent
Solvents	Excellent	Weather	Very Good

### ASTM Information

Physical properties are averages. The results listed below are obtained when applying Ultratect "Décor" (grey) to 5.1 mills DFT.

- Paint System Ultratect "DUCOR"
- Type/Colour Epoxy/Gray
- DFT 5.1
- Salt Fog (ASTM B117)
  - 1000 hours no rusting, no blisters
  - 2000 hours no rusting, few #2 blisters at the scribe
  - 3000 hours no rusting, no undercutting at the scribe, medium #2 blisters at the scribe
- Relative Humidity (ASTM D2247)
  - 1000 hours no rusting, no blisters
  - 2000 hours no rusting, no blisters
  - 3000 hours no rusting, no blisters
- Dry heat (ASTM D2485) 250 °F for 24 hours no cracking, very slight loss of adhesion, slight discolouration
- Electrical Resistance (ASTM D2457):  $28.3 \times 10^{17}$
- Adhesion (ASTM D4521 A2): 1834 psi adhesion failure between coating and substrate
- Cleveland Cond (ASTM D4585): 1000 hours no rusting, no blisters, no de lamination
- UV Con (ASTM D4587)\* 3000 hours
  - Gloss before exposure 48.9
  - Gloss after exposure 1.5
  - Evaluation no rusting, no blister, no de lamination
- Impact (ASTM D2794): 3 inch pounds
- Mandrel Bend (ASTM D522): % Elongation – 0%
- Taber Abrasion (ASTM D4060): weight loss in grams - .07

\* 8 hr UV @ 50 °C, 4 hr condensation @ 40 °C, gloss readings @ 60 °

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