

## TECHNICAL BRIEF #5

### UL 1332 Recognition

#### BACKGROUND

UL 1332 covers the requirements for Organic Coatings for Steel Enclosures for Outdoor-use Electrical Equipment- components. Below is an excerpt from the UL 1332 standard describing what is covered.

1.1 These requirements cover tests of opaque and clear organic coatings intended for application to exterior and interior surfaces of steel enclosures of outdoor-use electrical equipment for protection of the metal against atmospheric corrosion.

1.2 These requirements cover organic coatings consisting of one or more coats and their system of application to steel or zinc-coated steel with specified pretreatment, application, bake or cure schedule, and minimum dry-film thickness.

1.3 The final acceptance of a coating is dependent upon its use in a complete product that complies with the requirements in the standard applicable to such a product.

#### UL RECOGNIZED SYSTEM

A TGIC polyester powder coating platform has been granted all color recognition to UL 1332, DTOV2, under file number MH29927.

UL recognized powders are coded from EL-0300 to EL-9399 and have the UL recognition mark:



These coatings are for use only on products where the acceptability of the combination is determined by Underwriters Laboratories Inc.

The conditions of acceptability are listed in Table 1

#### WHAT DOES THIS MEAN?

The all color approval covers white through black, 60° gloss of 30-100, and sandy/grainy type textures. **Clears, metallics, and dimple/river textures are NOT covered.**

Powders with UL recognition must be applied according to the guidelines listed in the Table 1, Conditions of Acceptability, when used for UL purposes.

The coating is only a component of the end product. It is up to the customer to determine what UL standard must be met and perform the necessary testing with UL.

UL recognition helps the end user ensure the completed product will comply with the applicable UL standard they must meet. It can also speed up the UL approval process of their completed product.

#### Table 1 – CONDITIONS OF ACCEPTABILITY

1. **Substrate:** multistage, iron phosphate or multi-stage, non-iron phosphate pretreated steel
2. **Application:** electrostatic spray method
3. **Cure Schedule:** 10 minutes at 390°F (peak metal temp)
4. **Film Thickness:** minimum dry film thickness of the coating shall be 2.0 mils
5. **Coating system:** The generic resin type of the coating is polyester.