

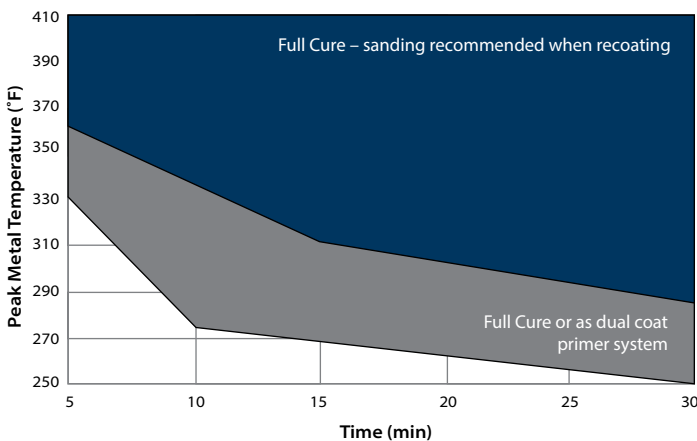
## E70 Reduced Temperature Cure XL Epoxy Powder Coatings

**Diamond Vogel E-Series Powder Coatings** offer excellent application and performance characteristics. Diamond Vogel's E-Series Powder Coatings' tightly controlled particle size distribution provides extremely good first-pass transfer efficiencies. The E70 epoxy powder coating exhibits inherent toughness, corrosion resistance, chemical resistance, flexibility, adhesion, and abrasion resistance. Epoxy powder coatings should not be used for exterior applications as exposure to ultraviolet radiation will cause chalking. This coating can be used as a single coat application, or as a primer in a dual coat application. When used in a dual coat application, the E70 epoxy powder coating should be cured following the guidelines below. Intercoat adhesion will be affected by the level of cure on the primer. This high quality barrier coating can provide excellent anti-corrosive properties that rival zinc primers without cost or application concerns.

### TYPICAL APPLICATIONS

- Pipe and rebar
- Storage shelving
- Electrical boxes
- Wire racks
- Hospital equipment
- Oil filters
- Appliances
- Under hood automotive
- Office furniture
- Primer

### CURE SCHEDULES



- Typical cure schedule 10 minutes @ 300°F, peak metal temperature
- Cure range from 20 minutes @ 275°F to 5 minutes at 350°F, peak metal temperature
- Epoxy powder will discolor when exposed to overbake or higher temperature conditions

### CURED FILM PROPERTIES

Recommended Film Thickness	2-8+ mils
PCI Powder Smoothness Rating	5-8 (high gloss)
Specific Gravity (ASTM D792)	1.2 to 1.8
Adhesion (ASTM D3359)	5B (100%)
Gloss (ASTM D523)	80+
Pencil Hardness (ASTM D3363)	4H-6H
Impact (ASTM D2794)	160+ inch lbs
Flexibility (ASTM D522)	1/8 inch
Humidity (ASTM D2247)	4,000+ hours
Salt Spray (ASTM B117) (on SP5 or zinc phosphate)	4,000+ hours

*\*Film properties are dependent on gloss, pigmentation, film thickness, and cure temperature.*

### STORAGE AND HANDLING

Diamond Vogel powder coatings should be stored at normal room temperature and humidity (less than 80°F and 50-60% RH). Shelf life will be approximately six months to over a year depending on storage conditions. Always rotate inventories to ensure trouble-free powder application. When storage conditions are not the same as the application area, allow a 24 hour acclimation period within the application area to prevent moisture condensation in the powder. Always protect virgin and reclaim powder from excessive heat and humidity.

### INDUSTRIAL HYGIENE

Powder handling should always be done in conjunction with proper dust collection and personal protective equipment. Please refer to the Safety Data Sheet for more detailed information.