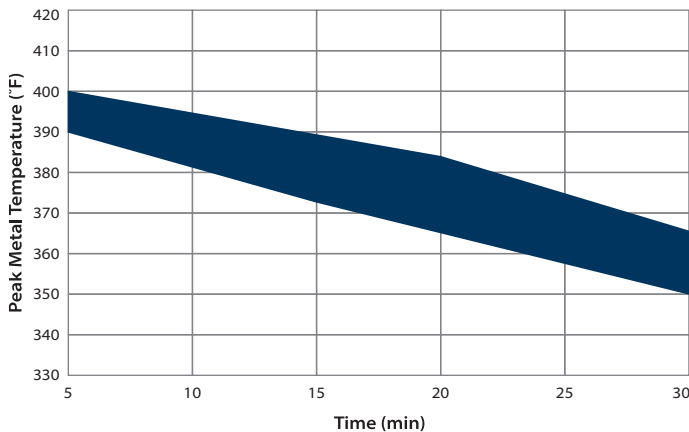# Peridium® E10
Epoxy Urethane Epoxy Powder Coatings

Peridium E10 Powder Coatings offer excellent application and performance characteristics. Diamond Vogel's focus on tightly controlled particle size distribution promotes ideal first-pass transfer efficiency. Peridium E10 exhibits inherent toughness, very good hot hardness, and outstanding chemical resistance. Epoxy powder coatings should not be used for exterior applications as exposure to ultraviolet radiation will cause chalking.

TYPICAL APPLICATIONS

- Storage shelving
- Electrical boxes
- Wire racks
- Heaters
- Oil filters
- Appliances
- Tools
- Hospital equipment

CURE SCHEDULE

Time (min) / Peak Metal Temperature (°F)

- Typical cure schedule 10 minutes @ 390°F, peak metal temperature

- Cure range from 20 minutes @ 380°F to 7 minutes at 400°F, peak metal temperature

CURED FILM PROPERTIES

PCI Powder Smoothness Rating	6+
Specific Gravity (ASTM D792)	1.2 to 1.8
Adhesion (ASTM D3359)	5B (100%)
Gloss (ASTM D523)	35-80
Pencil Hardness (ASTM D3363)	4H-6H
Impact (ASTM D2794)	10-20 inch lbs
Flexibility (ASTM D522)	1/2 inch
Humidity (ASTM D2247)	500+ hours
Salt Spray (ASTM B117)	500+ 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.

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