

## Peridium® H85

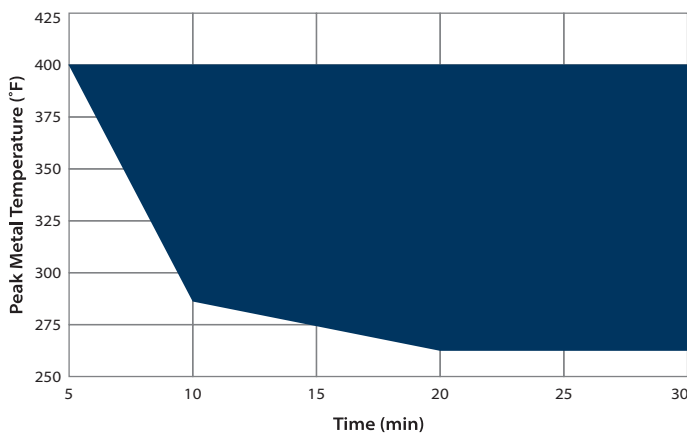
### Reduced Temperature Cure Hybrid Powder Coatings

**Peridium H85 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 H85 can be cured at temperatures under 300°F or at a shorter time at a higher temperature. It is ideal for heavy metal mass parts, heat sensitive parts, or for fast cure. Hybrids offer an economical alternative to epoxies while the polyester component provides improved resistance to yellowing from overbake and sunlight filtered through windows. Hybrid powders will chalk on exterior exposure due to the epoxy component.

#### TYPICAL APPLICATIONS

- Filters
- Tool boxes
- Cylinders
- Shelving
- Garden tools
- Power tools
- Under the hood automotive
- Heat sensitive parts

#### CURE SCHEDULE



- Typical cure schedule 10 minutes @ 300°F, peak metal temperature
- Cure range from 20 minutes @ 275°F to 5 minutes or less at 400°F, peak metal temperature

#### CURED FILM PROPERTIES

PCI Powder Smoothness Rating	4-6
Specific Gravity (ASTM D792)	1.2 to 1.8
Adhesion (ASTM D3359)	5B (100%)
Gloss (ASTM D523)	65-99
Pencil Hardness (ASTM D3363)	2H+
Impact (ASTM D2794)	40-160 inch lbs
Flexibility (ASTM D522)	1/8 inch
Humidity (ASTM D2247)	1,000+ hours
Salt Spray (ASTM B117)	1,000+ 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.