

General Technical Information

Epoxy-Polyester Hybrid “H” Series

Description

Erie’s “H” series powder coatings are formulated using a combination of epoxy and polyester resin. Epoxy-polyester coatings are designed for a large variety of interior applications due to their ease of use, wide range of decorative finishes, and relative cost effectiveness. Hybrid coatings have excellent flexibility and adhesion. Hybrid coatings have relatively poor UV stability and are therefore only recommended for interior applications. Heat sensitivity of hybrid coatings are varied; high gloss systems generally have great heat and overbake resistance, while some lower gloss systems may have poorer heat resistance and should avoid extended cure cycles or applications with excessive heat exposure.

Application

These products are used for a range of interior applications such as office furniture, shelving, and school lockers.

Dry Powder Property Ranges

<i>Film Build</i>	1.5 to 4.0 mils (38 to 100 microns)
<i>Cure Schedule</i>	6 to 14 minutes at 375°F (190°C) metal temperature
<i>Particle Size</i>	50% to 65% > 32 micron (Alpine Jet Sieve)
<i>Overbake Resistance</i>	Highly varied – dependent on gloss range
<i>Specific Gravity</i>	1.25 to 1.85
<i>Shelf Life</i>	3 to 12 months

Cured Film Property Ranges

<i>Gloss at 60° for Smooth Finishes</i>	5 to 95
<i>Impact Resistance (ASTM D2794)</i>	80 to 160 inch-pounds
<i>Pencil Hardness (ASTM D3363)</i>	H to 2H
<i>Cross Hatch Adhesion (ASTM D3359)</i>	5B full pass
<i>Flexibility (ASTM D522)</i>	180° ¼” conical mandrel with no cracking
<i>Salt Spray (ASTM B117)</i>	750 hours with <1/8” creep from scribe line

Note: This information is given in good faith based upon information believed to be true at the time of issue. However, no warranty expressed or implied can be given as results may vary due to application and other conditions. This table is not intended to give exact specifications for any particular product but to be used only as a general guide.