

Powder Coating Data Sheet

Epoxy Powder Coatings

Description

Epoxy powder coatings offer a wide range of properties. Typical characteristics include excellent flexibility and adhesion, combined with excellent chemical resistance. These products are generally used in applications where specific qualities are needed such as high pencil hardness, excellent chemical resistance, or in low cure / fast cure situations.

Applications

Typical uses include store shelving and racking, office furniture, laboratory fixtures, and automotive underhood and underbody parts. Epoxy products are recommended only for interior applications.

Properties noted below are based on typical powder coatings, applied on Bonderite CRS panels

Powder Properties

Cure Schedule	Generally fast curing, with cure schedules ranging from 4' to 12' at 375°F metal temperature
Storage Stability	Excellent - 6 months minimum at less than 25C
Specific Gravity (calculated)	1.2 to 1.8 depending on formulation
Particle Size Distribution	55-65% > 32 microns (Alpine Jet Sieve)

Cured Film Properties

Gloss	Gardner 60 deg.	4 – 100
Impact	ASTM D-2794	Up to 160 in lbs
Pencil Hardness	ASTM D3363	2H to 4H
Cross Hatch Adhesion	ASTM D-3359	Full pass (5B)
Flexibility - Conical Mandrel	ASTM D522	180 degrees 1/4 " Mandrel
Overbake Resistance	200 % Overbake	Poor to Fair, formulation and colour dependent

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.

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