

Series 8100

Thin Film Epoxy

General Description:

Thin Film Epoxy Powder series 8100 Coating is designed to serve as an inner coating of a thickness of 25- 40 microns. The powder coatings enable a smooth color coating made possible by special resins and the granule size incision that is tailored to the low coating thickness. The use of Thin Film Epoxy powder series 8100 coatings saves a great deal on the quantity of powder that is consumed (for the purposes of comparison, a regular powder coating is applied at a thickness of 60-100 microns). The Thin Film Epoxy powder coatings are manufactured in smooth surface, in wide range of colors and in different degrees of gloss.

Typical Applications:

Thin Film Epoxy powder coatings are used among others on metal furniture, cabinets, shelves, electronic equipment. Surfaces that are being coated must be smooth and without any prominent flaws.

Specifications:

Properties	Test Method	Value
Specific Gravity	ASTM D5965	1.2 – 1.5 gr/cm
Gloss (60°)	ASTM D523	Upon request
Impact Resistance	ASTM D2794	50 inch*lb.
Flexibility	ASTM D1737	180°, 3 mm
Adhesion	ASTM D3359	GT = 0,100%
Salt Spray	ASTM B117	> 600 Hours

All test, unless noted otherwise, were performed on R-46 Steel panels

Stoving conditions:

Metal temperature (MTP) 200°C (392° F) – 8-10 minutes

Storage:

Powder coats tend to absorb water vapors, so they must be sealed when the work is done. They should also be kept away from heat sources and direct sunlight. The powders' shelf life expectancy at a temperature of 25°C (77°F) and relative humidity of 60% is 12 months.

Precautionary Measures:

It is advisable to have the coating works proximity properly aired. Powder particles agitate the respiratory system. Hence inhaling this dust should be averted. In case of contact with skin, wash with water and soap. In case of contact with eyes, wash with water immediately and seek medical treatment. When working with powder coats, one should wear a protective mask, gloves and goggles. All equipment must be connected to grounding, so as to prevent static electric charge from being built up.

General notes:

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