

Series 9400

Multilayer Epoxy Primer Powder Coating

General Description:

Multilayer Epoxy Primer powders are designed to provide a very high level of anticorrosion. This primer is applied as the first coat of a two layer powder system. The second layer is the top coat that was specified. This primer has two major advantages. First, there is no need to partially cure it. Second, there is no need to sand it before applying the top coat according to its normal specifications. The fact that this product is not fully cured in the oven allows chemical connections between the coats in addition to the physical ones. These products have excellent adhesion, flexibility and impact resistant. They are also, durable to long exposures of heat and hot water.

Typical Applications:

This multilayer system is beneficial where two coats of anticorrosive powders are required. Typical usage includes, among others, structural-steel for construction, electronic enclosures, agriculture equipment.

Specifications:

Properties	Test Method	Value
Specific Gravity	ASTM D5965	1.5 - 1.7 g/cc
Impact	ASTM D2794	80 Inch/Lb
Flexibility	ASTM D522	180°, 3 mm
Adhesion	ISO 2409	GT = 0, 100 %
Salt Spray	ASTM B117	> 1500 Hours
Resistance Humidity	ASTM D2247	> 1500 Hours

All test, unless noted otherwise, were performed on R-46 panels Panels electro statically sprayed at around 3 mils (70 ± 5 microns)

Curing Temperatures:

There are two options to use this product:
Option 1- The product is applied as the first coat (primer) of a two layer anticorrosive powder system. It should be cured, in the oven, without changing the bake cycle at the standard temperature and time.

Option 2- The product is used as a top coat. It should be cured, in the oven, twice the standard time using the standard temperature.

Storage:

Powder coatings tend to absorb moisture, and therefore it must be stored in sealed containers after use. They must also be kept away from sources of heat and direct sunlight. The powder's shelf life expectancy is 12 months, at a temperature of 25o C (77oF), at a relative humidity below 60%.

Precautionary Measures:

It is recommended that the areas surrounding the site where coating takes place be properly ventilated. The powder's particles cause irritation of the respiratory tract; the inhalation of the powder must therefore be avoided. In case of contact with the skin, wash with water and soap. In case of contact with the eyes, wash with water immediately and seek medical help. A mask, gloves and protective glasses must be worn while working with powdered paint. All equipment must be grounded in order to avoid the build-up of static electric current.

General notes:

what is specifically recommended in this sheet should not be considered a substitute for consultation when formulating specifications for a specific project. All the data and recommendations contained in this sheet are based on inspections, knowledge and experience accumulated in our lab and on the ground, and they are most reliable. We claim no responsibility, implied, or otherwise. We are solely responsible for the product quality; users must verify whether it suits their specific requirements. The information contained herein is liable to modification without advance notice.

Update: 2/19