

Series 7000

Polyester TGIC FREE High gloss

General Description:

Polyester TGIC FREE powders of the 7000 series are polyester powders for Interior and Exterior Use. These powders provide excellent high UV resistance and good mechanical properties. Polyester TGIC FREE powders are also available in granular finish as well as in combinations of metallic effects and pearl surfaces.

Typical Applications:

Typical applications include aluminum profiles, curtain walls, backyard furniture, electrical poles, fence posts, cell towers, structural Steel, water pipe accessories, enclosures etc.

Colors and Shades:

7000 series is available in most of the RAL colors according to customer's requirements.

Specifications:

Properties	Test Method	Value
Specific Gravity	ASTM D5965	1.5 – 1.7 g/cc
Gloss (60°)	ASTM D523	70-100, upon request
Impact Resistance	ASTM D2794	>25 kg*cm
Flexibility	ASTM D522	Up to 180°, 3 mm
Pencil Hardness	ASTM D3363	>H
Adhesion	ISO 2409	GT=0, 100%
Salt Spray	ASTM B117	>1000 hours
Humidity Resistance	ASTM D2247	>1000 hours
Accelerated Weathering UVA	ASTM G 53	1000 hours

All test, unless noted otherwise, were performed on AL-36 Aluminum panels
At a film thickness of 60 - 80 microns (25 microns = 1 mil.).

Stoving conditions:

At Metal Temp. 170-175°C (338-347°F) - 15-20 min.
At Metal Temp. 180-185°C (356-365°F) - 8-12 min.

Recommendations:

Totally avoid mixing powders from different series or different vendors. Metallic powders and different batches can show small colour differences from batch to batch, this is normal and unavoidable. Add no more than 25-30 % of reclaimed powder to a virgin one.

Storage:

Powder coating tend to absorb moisture and therefore it must be stored in a sealed container once opened or used. Also, it must be kept away from sources of heat and direct sunlight. The powder's shelf life expectancy is 12 months, at a temperature of 25°C (77°F), 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. Inhalation of 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 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.

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