

Polyester - Grey MET

Product code: PO/23-7108 SMG

Color: RAL 9007

Composition and Application Field

Polyester Grey Metallic powder coating is a thermosetting powder coating based on saturated polyester resins especially selected for exterior use. Its good flow out and excellent resistance to atmospheric ageing and ultra violet light make it highly decorative and durable in outdoor environment. This powder coating product is applicable for electrostatic application.

Product meets most of the international requirements and specifications such as [Qualicoat]

Ideal for outdoor furniture providing excellent resistance, applicable for all type of manufactures who are in need for similar type of manufacturers who are in need for similar type product such as: [fencing, air conditioning, lawn and garden equipment, mailboxes, construction equipment, light stand, etc...]

Properties

- Excellent flexibility
- Mechanical properties
- UV resistance
- Outstanding finishes
- V. Good corrosion resistance

Substrates

Cold rolled steel

Colors

Grey RAL 9007

Appearance

Semi-Gloss (provides metallized surface)

Specific Gravity (MTDSLC149) Kg/l

Approx. 1.500 – 1.600 Kg/L

Spreading Rate (Milage)

Approx. 10.4 – 11.1m²/Kg [optimal film thickness @ 60µm]

Particles Size Distribution (MTDSLC151) µm

Approx. 42 – 48 µm

Curing Condition

20' @ 190°C m.t in standard conditions – metal temp.

[The film obtained maintains its property if the polymerization conditions are respected]

Storage

24 months when stored in dry and cool conditions @ 20°C, in original sealed containers.

Packing

20 Kg cardboard boxes.

[Also available in Big Bags or containers upon request]

Surface Preparation

For Steel: All surfaces must be dry, clean & free from contaminants. It is suggested a good substrate cleaning as required (sand blasting, degreasing, phosphatizing or chromating, etc...).

For Aluminum: In order to obtain optimal anti-corrosion properties, it is advised to apply a chemical pretreatment prior to powder coating application.

Application Data

Applied by electrostatic corona spraying using classic devices which can provide a negative tension of 60-80 kV. The powder is cured in suitable convection, combustion or induction, etc...

Dry Film Chemical & Mechanical Resistance

All test have been effectuated on UNI 0.5mm thickness panel cured polymerization conditions standards.

Test film thickness: @80µm.

| Test | Method | Range |
|------------------|---------|---------------|
| Film Thickness | IMOA001 | 60 – 80 µm |
| Adhesion | IMOA002 | 90 – 100% GTO |
| Cupping Erichsen | IMOA003 | 8 – 10 mm |
| Direct Impact | IMOA004 | 80 – 100 cm |
| [2lbs-½ inch] | | No Cracking |
| Indirect Impact | IMOA005 | 80 – 100 cm |
| [2lbs-½ inch] | | No Cracking |
| Pencil Hardness | IMOA001 | AB – B |

Resistance to common synthetic resistance (72 hrs. in 3% solution): No blistering or loss of adhesion no significant change in appearance.

Salt spray resistance (ASTM B117-73) on Chromate Aluminum: No blistering or loss of adhesion during (2000 hrs.)

Humidity Resistance (ASTM D2247) on Chromate Aluminum: No blistering or loss of adhesion during (1000 hrs.)