



# Polyester - Blue

Product code: PO/23-5010 SMG

Color: RAL 5010

## Composition and Application Field

Polyester Blue 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 manufacturers 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

Blue RAL 5010

## Appearance

Semi Gloss (provides smooth surface)

## Specific Gravity (MTDSC149) Kg/l

Approx. 1.500 – 1.600 Kg/L

## Spreading Rate (Milage)

Approx. 10.4 – 11.1m<sup>2</sup>/Kg [optimal film thickness @ 60µm]

## Particles Size Distribution (MTDSC151) 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 chromatizing, 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	IMO A001	60 – 80 µm
Gloss (60°)	IMO A002	56 – 70 gloss
Adhesion	IMO A003	90 – 100% GTO
Cupping Erichsen	IMO A004	8 – 10 mm
Direct Impact	IMO A004	80 – 100 cm
[2lbs-½ inch]		No Cracking
Indirect Impact	IMO A005	80 – 100 cm
[2lbs-½ inch]		No Cracking
Pencil Hardness	IMO A001	HB - F

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.)