

EPOXY POLYESTER [BLACK]

Product code: EP-72- 9005
[Colour - RAL 9005]

Epoxy Polyester Black RAL 9005 powder coatings for electrostatic application.

USES

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, mail-boxes, construction equipment, light stand, etc...]

PROPERTIES

Excellent flexibility
Mechanical properties
UV resistance
Outstanding finishes
V. good corrosion resistance

APPLICATION

Electrostatic Corona

SUBSTRATE

Cold rolled steel

COLOR

BLACK, RAL 9005

APPEARANCE

GLOSSY, SMOOTH

SPECIFIC GRAVITY [MTDSL149] Kg/l

1.550 - 1.650 Kg/L

SPREADING RATE [Mileage] a 60 µm

10.1 - 10.7 m²/Kg

PARTICLE SIZE DISTRIBUTION [MTDSL151] µm

42 - 48 µm

CURING CONDITION

15' @ 180 °C m.t in standard conditions - metal temp.

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

SHELF LIFE & STORAGE @20°C

24months in the original boxes

PACKAGING

20 Kg cardboard boxes.

[Also available in Big Bags or containers upon request]

SURFACE PREPARATION

For Steel:

All surfaces must be dry, clean and 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 a suitable convection or 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.
Gloss (60°)	IMOA002	75 - 85 gloss.
Adhesion	IMOA003	90 - 100% GTO
Cupping Erichsen	IMOA004	8 - 10 mm.
Direct Impact [2lbs-½ inch]	IMOA004	80 - 100 cm. [No cracking]
Indirect Impact [2lbs-½ inch]	IMOA005	80 - 100 cm. [No cracking]
Pencil Hardness	IMOA001	HB - F

Resistance to common synthetic resistance [72hrs. 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 [2000hrs.]

Humidity Resistance [ASTM D2247] on Chromate Aluminum

- No blistering or loss of adhesion during [1000hrs.]