Technical Data Sheet

P.2med series epoxy-polyester Colore®

The Information provided in this data sheet are generic for Colore® P.2med series. For further detail concerning specific products belonging to P.2med series, please contact us.

Description

Colore® P.2med is an epoxy-polyester series, formulated with epoxy and polyester resins. It is heavy metals and TGIC free. Film obtained after product's polymerization owns good mechanical features, a good flow and valid resistance features to chemical agents (detergents, propellants, lubricants…)

Area of applicability

Products developed in P.2med series can be used for painting and protecting metallic substrates for indoor use: it is generally used to paint components intended for naval furniture

Colour / Aspect

Please check stock list for eventual availability. Minimum order for custom production, starting from 25 kgs.
Products developed in P.2med could be:

- Smooth – matt 10 - 30 gloss*
- Smooth – semi matt 31 - 50 gloss*
- Smooth – metallic
- Fine structure – matt
- Fine structure – metallic
- Rough structure – matt
- Rough structure – semi matt
- Rough structure – metallic

Gloss level taken at 60° angle of incidence

Legislation

- Med approval Nr. **MED B MED404017CS**
- This powder coating respects European Directives "Restriction of the use of certain hazardous substances" 2002/95/CE and 2011/65/EU (RoHS).

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Physical features

- Specific gravity: 1.55-1.65 g/cm ³ according to the product
- Theoretical spreading rate: m ²/kg = 1000/specific weight for thickness
- Particle size at 63 µ: range 18-30

Features P.2med series after polymerization			
	Test conditions		
Steel panel	0,8 mm		
Surface pretreatment	Zinc salt phosphating		
Film thickness	According to the effect		
Curing conditions	190°x15' (T° object)		
TESTS	SPECIFICATIONS	UNIT OF MESAUREMENT	RESULTS
Gloss (60°)	UNI EN ISO 2813	gloss	Up to the effect
Thickness	UNI EN ISO 2360	µ	range 60-90
Colour gap (Δe) compared to initial standard		CIEILab	According to Qualicoat specifications
Buchholz hardness	UNI EN ISO 2815		Variable, according to the finishing (minimum value 80)
Erichsen cupping test	UNI EN ISO 1520	mm	<5 mm no cracks
Impact test (concave)	UNI EN ISO 6272-2	cm/kg	range 40-60 cm/kg no cracks
Impact test (convex)	UNI EN ISO 6272-2	cm/kg	range 50-70 cm/kg no cracks
Bend test (Cylindral mandrel)	UNI EN ISO 6860	mm	5mm No cracks
Cross-cut adhesion test	UNI EN ISO 2409	GT	0: no detachment
Salt spray test 250 h	MTD-03	mm	Penetratrion <2 mm

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Surface preparation

Surface must be carefully cleaned and degreased, according to the corrosion protection level requested. On steel, to get better results and to improve corrosion resistance features, it is possible and suggested, the use in combination with our Colore® epoxy primers.

Polymerization conditions

(object temperature)

- 190°x15'

Application

- Spraying can be done with automatic or manual Corona or Tribo electric system. With tribo electric system, compatibility with any metallic powder coating must be tested in plant, before its industrial use.
- Never mix powder from different production batches.

Storage stability and packaging

if kept in dry environment, in sun shelter and at temperature of maximum less than 30° powder coating stays stable for 24 months. In presence of different conditions then the ones written above, it is possible to accuse inconveniences such as lumps and important decreasing in powder coating fluency.

Goods are supplied in 25 or 20 kgs plastic bags and cardboard boxes.

Safety

Please check safety data sheet of specific product (MSDS)

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