

P.25 series epoxy-polyester ESD SHIELD Colore®

The Information provided in this data sheet are generic for Colore® P.25 series. For further detail concerning specific products belonging to P.25 series, please contact us.

Description

Colore® P.25 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 resistant features to chemical agents (detergents, propellants, lubricants...). Special additives used in this series are granting antistatic features to the film.

Area of applicability

Products developed in P.25 series can be used for painting and protecting metallic substrates for indoor use requiring antistatic features such as computers servers and accessories, switchboards, electronic devices etc

Colour / Aspect

Please check stock list for eventual availability. Minimum order for custom production, starting from 25 kgs.

Products developed in P.25 could be:

- Smooth – glossy 71-95 gloss*
- Smooth – semiglossy 51-70 gloss*
- Smooth – semi matt 31-50 gloss*
- Smooth – matt 10-30 gloss*
- Smooth – metallic
- Fine structure – matt
- Fine structure - metallic

Please be aware colors with these features must be valued according to color shade

**Gloss level taken at 60° angle of incidence*

Legislation

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:	1.50-1.65 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.25 series after polymerization			
		Test conditions	
Steel panel	0,8 mm		
Surface pretreatment	Zinc salt phosphating		
Film thickness	According to the effect		
Curing conditions	180°x15' (T° object)		
TESTS	SPECIFICATIONS	UNITA' DI MISURA	RISULTATI
Gloss (60°)	UNI EN ISO 2813	gloss	Up to the effect
Thickness	UNI EN ISO 2360	μ	range 50-70
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	Penetration <2 mm
Resistivity*		Ω/sq	Between 10 ⁴ and 10 ¹²

*According to norm IEC 61340-5-1 1.0, 2007 edition – Protection of electronic devices from electrostatic phenomena – film thickness of 60 – 80 μm (increasing the film thickness will improve the electrical resistance accordingly)

Colore® - powder coatings
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This technical data sheet replaces all previous versions



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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)

- According to finishing and gloss level, between 160*15 and 190*15

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.

Safety

Please check safety data sheet of specific product (MSDS)

Disclaimer: all provided and given information are correct and the result of our best experiences and knowledges, but they do not comport any responsibilities or warranty in case of non-proper use. In accordance with COLORE® policy of products development, information given in this technical data sheet are susceptible, without notice, of changing in respect of company view product's continuous improvement.

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