

Series P.25 polyester antistatic use indoor 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 a thermo-setting powder coating series formulated with polyester resin. It is heavy metals and TGIC free. Film obtained after product's polymerization owns has very 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

Color / Aspect

- smooth glossy Smooth – glossy 71-95 gloss*
- smooth semi-glossy 51-70 gloss*
- smooth semi-matt 31-50 gloss*
- smooth matt 20-30 gloss*
- smooth metallic/multicolor
- Fine structure – matt
- Fine structure – metallic/multicolor

Note: the colors reproducible with these characteristics must be evaluated according to the 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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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 12 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.



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Physical features	
• Specific gravity:	1.20-1.60 g/cm ³ according to the product
• Theoretical spreading rate:	m ² /kg = 1000/specific weight for thickness
• Particle size at 63 μ:	range 20-31

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	UNIT OF MESAUREMENT	RESULTSI
Gloss (60°)	UNI EN ISO 2813	gloss	-
Thickness	UNI EN ISO 2360	μ	variable, according to the finishing
Color 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 40-60cm/kg no cracks
Impact test (convex)	UNI EN ISO 6272-2	cm/kg	range 40-60 cm/kg no cracks
Bend test (Cylindered mandrel)	UNI EN ISO 6860	mm	5 mm No cracks
Cross-cut adhesion test	UNI EN ISO 2409	GT	0: no detachment
Salt spray test (500 hrs)		mm	Penetratrion <2mm
Resistivity*	UNI EN 61340-2-3:2001	Ω x m ²	<2 mm di penetrazione

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*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 enhance the electrical resistance)

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.

Application

- Spraying can be done with an automatic or manual Corona system.
- Never mix powder from different production batches.
- The use of the same production batch is recommended on painting details that will be subsequently assembled.

Polymerization conditions

(object temperature)

- 180°x15'

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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