

Series P.19 Pe-pa Colore®

The Information provided in this data sheet are generic for Colore® P.19 series. For further detail concerning specific products belonging to P.19 series, please contact us.

Description

Colore® P.19 is a thermo-setting powder coating series. It is heavy metals and TGIC free. Its reactivity is medium. Film obtained after product's polymerization owns good mechanical features, valid resistances features to chemical agents (detergents, propellants, lubricants...), furthermore granting high thermal stability to coated items.

Area of applicability

Products developed in P.19 series can be used for painting and protecting metallic substrates for indoor use. Wide use could be found in coating and protecting items where a higher heat resistance.

Colour / Aspect

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

Products developed in P.19 could be:

- Smooth – glossy 71 – 90 gloss*
- Smooth – semi semi glossy 51 - 70 gloss*
- Smooth – metallic
- Fine structure – matt
- Fine structure – semi matt
- Fine structure – metallic

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).

Storage stability and packaging

if kept in dry environment, in sun shelter and at temperature of maximum less than 30° powder coating stay 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 20kgs plastic bags and cardboard boxes.



Technical Data Sheet



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Physical features

- Specific gravity: 1.50-1.65 g/cm³ according to the product
- Theoretical spreading rate: m²/kg = 1000/specific weight for thickness
- Particle size at 63 µ: range 20-30

Features P.19 series after polymerization

Test conditions			
Steel panel	0,8 mm		
Surface pretreatment	Zinc salt phosphating		
Film thickness	According to the effect		
Curing conditions	200°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 80-120
Colour gap (Δe) compared to initial standard		CIEILab	According to Qualicoat specifications
Buchholz hardness	UNI EN ISO 2815		n.r.
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

Thermal stability test

220°C X 20 minutes	CILab	ΔE=0,20
240°C X 20 minutes	CILab	ΔE=0,80
150°C X 24 hours	CILab	ΔE=0,30
180°C X 8 hours	CILab	ΔE=0,25
180°C X 24 hours	CILab	ΔE=0,80

NB: Values obtained from tests carried out in our laboratories, are purely indicative. In metallic finishing items, values have not to be considered valid.



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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)

- 200°x15'
- 190°x20'

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.

Colore® - powder coatings

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