

## Serie P.2 Epoxypolyester Colore®

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

### Description

**Colore® P.2** 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.2 series can be used for painting and protecting metallic substrates for indoor use: office and home furniture, household electric appliances, metal shelving, machine tools, etc....

### Colour / Aspect

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

Products developed in P.2 could be:

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

*\*Opacità misurata ad angolo di incidenza 60°*

### Legislation

This powder coating respects European Directives "Restriction of the use of certain hazardous substances" 2002/95/CE and 2011/65/EU (RoHS).

Versione 25.10.2022 Revisione n°8

Questa scheda tecnica sostituisce tutte le schede tecniche delle versioni precedenti

**Colore S.r.l. | Via della Meccanica 16/b, 36016 Thiene (VI) Italia**  
**T+39 0445 380 800 - [info@colore.im](mailto:info@colore.im) – [www.colore.im](http://www.colore.im)**



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### Physical features

- Specific gravity: 1.50-1.65 g/cm<sup>3</sup> according to the product
- Theoretical spreading rate: m<sup>2</sup>/kg = 1000/specific weight for thickness
- Particle size at 63 µ: range 25-31

### Caratteristiche del rivestimento in serie P.2 polimerizzato

Test conditions			
Steel panel	0,8 mm		
Surface pretreatment	Zinc salt phosphating		
Curing conditions	According to the effect		
Condizioni di cottura	190°x15' (T° object)		
TESTS	SPECIFICATIONS	UNIT OF MESAUREMENT	RESULTS
Gloss (60°)	UNI EN ISO 2813	gloss	-
Thickness	UNI EN ISO 2360	µ	80-120
Colour gap(Δe) compared to initial standard		CIEILab	According to Qualiacat specifications
Buchholz hardness	UNI EN ISO 2815		Variable ,according to the finishing (minimum value 80)
Pencil hardness (KOH-I-NOOR)	UNI EN ISO 15184	mm	H-2H
Imbutitura Erichsen	UNI EN ISO 1520	mm	<5 mm nessuna fessurazione
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
Best test ( Cylindral mandrel)	UNI EN ISO 6860	mm	5 mm No cracks
Cross-cut adhesion test	UNI EN ISO 2409	GT	0: nessun distacco
Salt spray test 250 h	MTD-03	MM	Penetratrion < 2 mm

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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 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.

### 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 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.

### Polymerization conditions

*(object temperature)*

- 190°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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