

P.21 Series Polyurethane anti-graffiti Colore®

The information provided in this data sheet are generic for Colore® P.21 series anti-graffiti. For further detail concerning specific products belonging to P.21 series anti-graffiti, please contact us.

Description

P.21 series anti-graffiti, due to its chemical nature, is suggested for painting and protecting metallic substrates for outdoor use where it is required a superior degree of chemical resistance. Wide application field could be found in urban and rail furnishings, tube stations etc. Due to his characteristics, is suggested for the removal of numerous soiling agents(spray,marker, etc). Without deterioration of the film(Please contact our lab for further info).**(WAITING FOR ISO 11246:2007 APPROVAL)**

Color / Aspect

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

Products developed in **P.21 anti-graffiti** could be:

- Smooth – semi glossy 51-70 gloss*
- Smooth – glossy 71-95 gloss*
- Smooth-metallic/multicolor

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).

WAITING FOR ISO 11246:2007 APPROVAL

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.

*Issued on 30/04/2020 Revision nr.9
This technical data sheet replaces all previous versions*



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Physical features	
• Specific gravity:	1.20-1.80 g/cm ³ according to the product
• Theoretical spreading rate: m ² /kg = 1000/specific weight for thickness	
• Particle size at 63 μ:	range 20-26

Features P.21 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	RESULTSI
Gloss (60°)	UNI EN ISO 2813	gloss	Variable, according to the finishing
Thickness	UNI EN ISO 2360	μ	range 70-100
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	<4 mm no cracks
Impact test (concave)	UNI EN ISO 6272-2	cm/kg	30 cm/kg no cracks
Impact test (convex)	UNI EN ISO 6272-2	cm/kg	30 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

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Salt spray test (1000 hrs)	MTD-03	mm	corrosion length max 4 mm corrosion area max 16mm ² /10cm
Solar box exposure: 1000 krs	UNI EN ISO 11341	gloss	≤50% drop in gloss

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, using in combination with our Colore® epoxy primers.

Application

- Spraying can be done with automatic or manual Corona.
- 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)

- 200°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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