

ARCHITECTURAL POLYESTER POWDERS GLOSS SERIES TECHNICAL DATA SHEET

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PERFORMANCE COATINGS

Powder Properties

Chemical composition: Health and Safety:	Architectural grade TGIC free polyester Refer to AVACE TGIC free Polyester powder coating MSDS		
Specification:	Qualicoat Class 1		
	Complies with BS EN		
		6 & BS6497	
		Part 6 Fire propagation class 0	
		Part 7 Spread of flame class 1	
Colours and finishes:	Powders are available in all RAL colours including metallic.		
	Pantone, NCS, Designer RAL, Munsell colours 20kg make to order in 4 days.		
Gloss level:	80 % +/-5 (60 degree head gloss meter)		
Storage:	The product has a shelf life of 12 months if stored in its original packing in a fresh and dry environment		
	at a temperature below 30°C		
Cure Conditions:	Standard conditions are the following (actual temperature of the substrate):		
	15 minutes curing at 180°C 12 minutes curing at 190°C 10 minutes curing at 200°C		
Application method:	Powder can be applied with corona electrostatic guns or tribo electric guns.		
Specific weight:	1.3-1.6 Kg/dm3 (depending on type and colour)		
Particle size:	Suitable for electrostatic applications		
Ontinuum film thickness	Concerts CO to 70,000. The thickness of the contine film of contain strong colours are service to be		
Optimum film thickness:	Smooth: 60 to 70µm. The thickness of the coating film of certain strong colours may require to be higher in order to guarantee full opacity.		
Broduct coverage	Theoretical Coverage sqm/kg = 1000 /(average dft in μm x Specific wt in kg/ dm3)		
Product coverage:	Theoretical Coverage sqm/kg = 1000 /(average art in μm x specific with kg/ am3)		
Pre-treatment:	To ensure maximum adhesion the substrate must be thoroughly clean, free from grease, oil, rust, mi		
	scale or any other contaminant. Cleaning maybe carried out either by shot blasting, solvent or		
	chemical degreasing. For applications where high corrosion or chemical resistance is required the		
	substrate should be chemically treated prior to powder coating:		
	Ferrous substrates:	Zinc phosphate	
	Zinc Coated steel:	Zinc phosphate or Chromate conversion	
	Aluminium:	Chromate conversion	

Mechanical and Chemical Properties

Test Thickness:	65 ± 10μm	UNI EN ISO 2360:2004	
Adhesion:	GTO (equivalent to 5B according to ASTM D3359)	UNI EN ISO 2409:1996	
Pencil hardness:	H-2H	ASTM D3363-00	
Impact Test:	≥2.5Nm	ASTM D2794-93	
Bending:	5mm	UNI EN ISO 6860:1996	
Erichsen:	≥5 mm (no detachments, no cracks)	EN ISO 1520:1995	
Hardness Buchholz:	≥80	EN ISO 2815:1998	
Salt spray resistance:	1000hrs (≤ 3mm)	ASTM B117-97	
Acetic acid salt spray:	1000hrs (≤ 4mm)	ISO 9227:1990	
Humidity resistance:	1000hrs	DIN 50017:1982	
Q-Uva (340 nm):	200hrs (loss of gloss<50%)	ASTM G154-00	
Kesternich corrosion:	> 24 cycles (≤1mm)	EN ISO 3231:1997	
Chemical Resistance:	Good resistance to diluted acids, alkali and oils at normal temperatures.		

Disclaimer

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