

OPC8000 SERIES FLUORESCENT & NEON POWDER COATINGS

	INTRODUCTION	OXYCOLOUR FLUORESCENT & NEON POWDER COATINGS provide a high luminescence quality in a TGIC polyester resin system. This range of intense, fluorescent powders are formulated to give good flow out and semi-gloss to high gloss finish. Due to the intensity of fluorescent pigments, the OPC8000 series powder coatings are NOT recommended for extended UV exposure.		
	GLOSS AND COLOUR RANGE	Semi-gloss to high gloss. Colours available: OPC8001 Neon Yellow, OPC8004 Fluorescent Green, OPC8006 Fluorescent Orange, OPC8005 Fluorescent Pink OPC8003 Fluorescent Red Orange, OPC8002 Fluorescent Red (2 coat process - requires a white base coat) *Oxytech recommends a white base coat be applied under all OPC8000 series as it improves the fluorescent effect and uniform finish of the coating.		
	APPLICATIONS	Used in applications where surfaces are not permanently exposed to UV light: Sporting Equipment, Bicycles, Safety Rails, Fishing Lures, Automotive Parts, etc.		
	APPLICATION SCHEDULE	May be applied by electrostatic spraying using classic devices which can provide a negative tension of 40 - 80kV. Optimal film thickness: 60-80µm. Cure schedule: 10 minutes @ 200°C metal temperature. Full cure is obtained when curing the top coat at the recommended schedule.		
	SUBSTRATES AND PRE-TREATMENT	May be applied to the following substrates after the appropriate cleaning and conversion coating:Ferrous metals:Ferrous metals:Iron or zinc phosphatation (cold-rolled steel, cast iron, etc.)Zinc surfaces:Chromatation or zinc phosphatation (galvanised steel, zinc alloy)Aluminium alloys:		
	STORAGE	At temperatures not exceeding 30°C and under dry conditions, powders may be stored for up to 6 months without affecting their free-flowing properties. The coating thus obtained will still have optimal characteristics.		
	PROPERTIES OF THE POWDER	Specific gravity (DIN 55990/3):1.4-1.8 g/cm³ (depending on colour)Theoretical Coverage at 60µm:11m²Pencil Hardness:>H		
_ F	Dal Gene owders that Exi	Oxytech Powder Coatings Pty Ltd PO Box 149, Horsley Park NSW 2175 p: 1300 353 655 f: (02) 9675-4279		

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PROPERTIES OF THE COATING

Physical and Mechanical	The following are properties typical of OPC8000 series powders determined on 0.8mm gauge degreased galvanised steel:		
	Film Thickness	: 60 - 80µm	
	Gloss (ASTM D523,60°)	: 80-90+	
	Flow-out	: Good	
	Adhesion (ASTM D3359; Method B)	: 5B	
	Pencil hardness (ASTM D3363-Stae	dtler Lumograph) : >H	
Direct impact (ASTM D2794 – 0		25 in. Diameter ball) : **	
	Reverse Impact (ASTM D2794 – 0.6	25 In. Diameter ball)	
	** Due to the raw materials required to the impact resistance in some instan	to produce such high fluorescent effect powders, ces can be compromised. This mechanical	
	formulation of the powder.	a lack of cure of age of powder as it is in the	
Resistance to Common Synthetic Detergents	72 hours immersion in 3% solution	No blistering or loss of adhesionNo significant change in appearance	
Salt-Spray Resistance	According to ASTM B117-73 on, Iron phosphated steel, 500 hours	: 1mm undercutting; No blistering	
Humidity Resistance	According to ASTM D2247 on Iron phosphated steel, 500 hours	: 1mm undercutting; No blistering	
Chemical Resistance	OPC8000 series powders have not been checked for resistance to various chemicals due to the aesthetic nature of the coatings. It is recommended that independent testing is carried out prior to commercial application on the individual chemicals and concentrations which are to be expected in that particular application.		
Accelerated Weathering	N/A due to the poor UV resistance of	the Fluorescent pigments.	



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