



HMG Powder Coatings Limited

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Polyester Antimicrobial

Product Description	A powder coating incorporating a silver glass complex that antagonises the settlement of micro-organisms on the surface of the cured powder coating film. In addition, the coating offers good flow, toughness and chemical resistance.	
Key Benefits	An antimicrobial surface Good exterior durability Good corrosion resistance Good chemical resistance Excellent adhesion Non-toxic	
Powder Properties	Chemistry	A thermosetting polyester resin system.
	Application	Corona electrostatic spray. The system can be modified for Tribo application as required.
	Coating Thickness (DFT)	Depending on covering power and shade, general recommendation is 60-100 microns (μm), with a minimum thickness of 60 μm .
	Gloss (ISO 2813)	Gloss >80% Semi-Gloss 50-70% Matt 25-35%
	Specific Gravity	1.40 – 1.70 g/cm^3 depending on colour.
	Coverage	From 10-14 m^2/kg at 60 microns film thickness.
	Storage & Shelf Life	When stored in a cool (<20°C), dry environment: 12 months.
	Curing Schedule	Typical: 10 minutes at 180 Celsius (object temperature) see box label for curing conditions.
Pretreatment	To ensure maximum adhesion the substrate must be thoroughly clean, free from grease, oil, rust, mill scale or any other contaminant. Cleaning may be 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, typically:	
	Ferrous substrates	iron or zinc phosphate
	Zinc coated steel	zinc phosphate or chromate conversion
	Aluminium	chromate conversion
Mechanical Tests	Unless otherwise specified, all tests were carried out under laboratory conditions on 0.8mm degreased and zinc phosphated steel panels. A powder coating DFT of 60-70 microns was used.	
	Hardness	ISO 2815 Buchholtz Indentation >80
	Flexibility	ISO 1519 Cylindrical Mandrel Pass >5mm
	Adhesion	ISO 2409 2mm Crosshatch Pass Gt0
	Cupping	ISO 1520 Erichsen Pass >5mm
	Impact	BS 3900: Part E7 >25kg cm (N)

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Corrosion and Durability	Neutral Salt Fog	ASTM B117 (500 hours)	Pass – Corrosion creep <2mm from scratch
	Mortar Resistance	ASTM C207	Easy to remove. No staining
	Boiling Water	2 hours boiling water	No defects or detachments
	Humidity	BS 3900 Part F2	More than 1000 hours without effect
	Chemical Resistance	Resistant to most acids, alkalis and oils.	
Fire Resistance	Construction	The range has been tested to the requirements of BS 476 parts 6 & 7 and has a Class 0 surface as defined in various national building regulations.	
		The range has been tested to the requirements of EN 13823 and ISO 1716 and is classified as A2 s1 d0 according to EN 13501-1	
	Rail	Additional to the above, the range has been tested to EN 45545-2+A1 Annex C and meets the requirements of London Underground S1085 'Fire Safety Performance of Materials'.	
Colour Availability	All colours from BS 5252, BS 4800, BS 381C, RAL Classic, RAL Design, Pantone and NCS ranges. Any submitted colour standard can be manufactured to customer's requirements		
Structured Effects	The Polyester Anti-Bac range is available as a smooth finish, a fine sandpaper texture or a ripple texture.		
RoHS/RoHS2/RoHS3	This product range conforms to the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations Directives. Refer to our full statement on the hmgpowdercoatings.co.uk website.		
Health & Safety	This product is intended for use only by professional applicators in industrial environments. Consult the relevant health and safety data sheet indicated in the box label before use.		



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