

HMG Powder Coatings Limited

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Polyester Nylon Reinforced

Product Description	Designed for both exterior and internal use, this range of powder coatings offers both excellent outdoor durability and decorative aspect. In addition to high corrosion resistance, optimum mechanical properties and excellent gloss retention, the system incorporates a nylon modification resulting in a tough surface, resistant to scuffing, abrasion and marring. The product is often used in applications such as handrails, fence parts, wheel runners, etc.			
Powder Properties	Chemistry	Thermosetting carboxylated polyester cured with a multifunctional curing agent.		
	Application	Corona electrostatic spray. The system can be modified for Tribo application as required.		
	Coating Thickness	Depending on covering power and shade, general recommendation is 60-100 microns (μm), with a minimum thickness of 60 μm .		
	Gloss (ISO 2813)	Gloss Semi-Gloss Matt		
	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	 See box label for curing conditions. Typical object temperature conditions are: 10 minutes at 180 Celsius 		
Pretreatment	To ensure maximum adhesion the substrate must be thoroughly clean, free from grease, oil, rus scale or any other contaminant. Cleaning may be carried out either by shot blasting, solvent or degreasing. For applications where high corrosion or chemical resistance is required the substra be chemically treated prior to powder coating, typically:			
	Ferrous substrates Zinc coated steel Aluminium	iron or zinc phosphate zinc phosphate or chromate conversion 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)	
	Scratch	BS 3900: Part E2	Pass 4kg	
Corrosion and Durability	Sulphur Dioxide	Kesternich Test ISO 3231	After 24 cycles, infiltration <1mm from scratch	
	Neutral Salt Fog	ASTM B117 (500 hours)	Corrosion creep <2mm from scratch Adhesion – Gt0	
	Mortar Resistance	ASTM C207	Easy to remove. No staining	
	Boiling Water	2 hours boiling water	No defects or detachments	
	Humidity	BS3900: Part F2	Pass. 1000 hours without any effect.	

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	Exterior Durability After 12 months, minimal loss of gloss or colour change. No reduction in protective properties	film breakdown or		
Chemical Resistance	The range shows excellent resistance to water, brine, hydrochloric acid, dilute sulphuric, acetic and phosphoric acids, dilute alkalis, peroxides and bleach, alcohols and urea.			
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 m requirements of London Underground S1085 'Fire Safety Performance of Materials'.	eets the		
Colour Availability	All colours from BS 5252, BS 4800, BS 381C, RAL Classic, RAL Design, Pantone and NCS submitted colour standard can be manufactured to customer's requirements	Sranges. Any		
RoHS/RoHS2/RoHS3	This product range conforms to the Restriction of the Use of Certain Hazardous Subst and Electronic Equipment Regulations Directives. Refer to our full statement on the hmgpowdercoatings.co.uk website.	ances in Electrical		
Health & Safety	This product is intended for use only by professional applicators in industrial environments. Consult th relevant health and safety data sheet indicated in the box label before use.			



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