

HMG Powder Coatings Limited

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Epoxy Polyester

Product Description	Often known also as 'Hybrids', a powder coating system based on a co-curing blend of epoxy and polyester resins. Designed where the user requires a superior protective and decorative finish for indoor applications. The system typically offers good flow, toughness and chemical resistance, but further modifications can be made, including increased mar resistance, chemical resistance, enhanced heat stability, cure speed.				
	Typical applications incl	clude white goods, office furniture, computer casings, electrical enclosures, etc.			
Key Benefits	Excellent aesthetics Good corrosion resistance Good chemical resistance Excellent adhesion				
Powder Properties	ies Chemistry Application Gloss (ISO 2813) Specific Gravity Coverage Storage & Shelf Life Curing Schedule		A thermosetting epoxy-polyester resin system.		
			Corona electrostatic spray. The system can be modified for Tribo application as required.		
			A range from Matt (10%) to Gloss (>85%).		
			1.40 – 1.70 g/cm ³ depending on colour.		
			From 10-14 m ² /kg at 60 microns film thickness.		
			When stored in a cool (<20°C), dry environment: 12 months.		
			See box label for curing conditions. Typical object temperature conditions are: 617 Standard Bake: 10 minutes at 180 Celsius (object temperature) 617 Low Bake: 10 minutes at 160 Celsius (object temperature)		
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 substrate 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 zinc phosphated steel panels. A powder coating DFT of 60-70 microns was used.				
	Hardness	ISO 2815 E	Buchholtz Indentation	>80	
	Flexibility	ISO 1519 (Cylindrical Mandrel	Pass >5mm	
	Adhesion	ISO 2409 2	2mm Crosshatch	Pass Gt0	
	Cupping	ISO 1520 E	Erichsen	Pass >5mm	
	Impact	BS 3900: F	Part E7	>25kg cm (N)	

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Corrosion and Durability	Neutral Salt Fog	ASTM B117 (250 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 o	ils.	
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			
Fire	For lead-free products only (consult the product label and safety data sheets): this range meets the requirements of London Underground Standard 1-085 'Fire Safety Performance of Materials' (Certificate #1142).			
Restriction of Hazardous Substances (RoHS)	For lead-free products only (consult the product label and safety data sheets): This product range conforms to the RoHS Directive. It does not contain any compounds of lead, mercury, cadmium or hexavalent chromium; nor does it contain polybrominated biphenyls (PBBs) or polybrominated diphenyl ether (PBDE).			
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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