

HMG Powder Coatings Limited

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Product Description	Epoxy powder coatings typically offer an outstanding flow and aesthetical appearance. The range may be used for decorative purposes; however the binder system is particularly suited to applications where the user requires resistance to aggressive environments.					
	There are many applications for this range, particularly in the functional coatings market, for example Busbar insulation, water pipe protection, acid battery casings, brake pad coating, etc. Additionally, their chemical properties make epoxy systems highly suitable for heat resistant applications such as fire surrounds, guards, etc.					
Key Benefits	Excellent corrosion resistance Excellent chemical resistance Excellent adhesion High surface hardness					
Powder Properties	Chemistry	A therm	A thermosetting epoxy resin system.			
	Application		Corona electrostatic spray. The system can be modified for Tribo application as required.			
	Coating Thickness (DF	•	Depending on covering power and shade, general recommendation is 60-100 microns (μ m), with a minimum thickness of 60 μ m.			
	Gloss (ISO 2813)	A range	A range from Dead Matt (<10%) to Gloss (>85%).			
	Specific Gravity	1.40 - 1	1.40 – 1.70 g/cm ³ depending on colour.			
	Coverage	From 10	From 10-14 m ² /kg at 60 microns film thickness.			
	Storage & Shelf Life	When st	When stored in a cool (<20°C), dry environment: 12 months.			
	Curing Schedule	See box	Typical: 10 minutes at 180 Celsius (object temperature) See box label for curing conditions. Epoxy systems can be modified for fast cure/low bake applications.			
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 Zinc coated steel Aluminium	iron or zinc phospha zinc phosphate or cl chromate conversio	phate or 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 Cros	shatch	Pass Gt0		
	Cupping	ISO 1520 Erichsen		Pass >5mm		
	Impact	BS 3900: Part E7		>25kg cm (N)		

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Corrosion and Durability	Salt Fog	ISO 7253 (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	Epoxy systems are typically resistant to most acids, alkalis, oils, lubricants, brake fluids and hydraulic fluids such as Skydrol. The system can often be modified where a specific resistance is required.		
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			
Restriction of Hazardous Substances (RoHS/RoHS2)	This product range conforms to the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations (RoHS and RoHS2) 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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