



# HMG Powder Coatings Limited

Dill Road, Castlereagh Industrial Estate, Belfast, BT6 9HU  
Tel. +44 (028) 9079 4930 Fax. +44 (028) 9040 1187  
www.hmgpowdercoatings.com  
sales@hmgpowdercoatings.co.uk

## Epoxy Polyester Anti-Microbial

<b>Product Description</b>	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. These coatings are typically used in such applications as lockers, cabinets, office furniture.	
<b>Key Benefits</b>	An antimicrobial surface Good corrosion resistance Good chemical resistance Excellent adhesion Non-toxic	
<b>Powder Properties</b>	Chemistry	A thermosetting epoxy-polyester resin system.
	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 ( $\mu\text{m}$ ), with a minimum thickness of 60 $\mu\text{m}$ .
	Gloss (ISO 2813)	A range from Matt (10%) to Gloss (>85%).
	Specific Gravity	1.40 – 1.70 $\text{g}/\text{cm}^3$ depending on colour.
	Coverage	From 10-14 $\text{m}^2/\text{kg}$ at 60 microns film thickness.
	Storage & Shelf Life	When stored in a cool (<20°C), dry environment: 12 months.
	Curing Schedule	10 minutes at 180 Celsius (object temperature)
<b>Pretreatment</b>	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
<b>Mechanical Tests</b>	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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<b>Corrosion and Durability</b>	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 oils.	
<b>Colour Availability</b>	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		
<b>Restriction of Hazardous Substances (RoHS/RoHS2)</b>	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).		
<b>Health &amp; Safety</b>	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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