

HMG Powder Coatings Limited

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Epoxy Polyester Electrostatic Dissipative

Product Description	Static dissipative coatings offer a colourful, environmentally-sound solution to the problem of static electricity. A potential difference occurs when any two touching objects are separated; over time this potential difference can build up on electrically insulative surfaces, eventually arcing in the form of a spark.				
	While this usually results in just an annoying physical sensation, market surveys annually report considerable damage caused by electrostatic discharge, especially in the field of electronic components, where the size of componentry is ever-decreasing. Whilst standard powder coatings typically show resistivity values falling in the range of insulating materials, this range has been developed to effectively prevent the accumulation of an electrostatic charge.				
	The range is suited for use in major appliances, including tumble dryers, electrostatic discharge protected areas, static-safe work benches, racks, trolleys, clean rooms, etc.				
Key Benefits	An electrostatic dissipative surface Good corrosion resistance Good chemical resistance Excellent adhesion Non-toxic				
Powder Properties	Chemistry	A thermoset	A thermosetting epoxy-polyester resin system.		
	Application	Corona spra required.	Corona spray. The system can be modified for Tribo application as required.		
	Coating Thickness		General recommendation is 60-100 microns (μ m), with a minimum thickness of 60 μ m.		
	Gloss (ISO 2813)	Semi-Gloss	Semi-Gloss		
	Specific Gravity	1.50 – 1.80 g	1.50 – 1.80 g/cm ³ depending on colour.		
	Coverage	From 10-14	From 10-14 m ² /kg at 60 microns film thickness.		
	Storage & Shelf Life	When stored	When stored in a cool (<20°C), dry environment: 12 months.		
	Curing Schedule	10 minutes a	10 minutes at 180 Celsius (object temperature)		
Surface Resistivity	ASTM D257 <10 ⁹ Ω/sq				
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 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 Inde	entation >80		
	Flexibility	ISO 1519 Cylindrical Ma	ndrel Pass >5mm		
	Adhesion	ISO 2409 2mm Crosshat	ch Pass Gt0		
	Cupping	ISO 1520 Erichsen	Pass >5mm		
	Impact	BS 3900: Part E7	>25kg cm (N)		

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Epoxy Polyester ESD

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 oils.		
Colour Availability	A range of colours are available. Please contact HMG for more information.			
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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