

HMG Powder Coatings Limited

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Polyester Anti-Bac

Product Description	Designed where the user requires an anti-bacterial coating coupled with a superior exterior durable finish. In addition, the coating offers good flow, toughness and chemical resistance.					
	MRSA (Multiple-Resis antibacterial propertion the treatment of 'sick	tant Staphylo es. The prod -building syn y other appli	tive ingredient have been challenged with various microbes, including occcus Aureus). Results have shown the product to offer superb uct is therefore highly suited as a failsafe in the control of microbes in drome', in cleanroom applications, such as operating theatres and cation where the end-user requires sanitary conditions. It does not			
Key Benefits	An antimicrobial surfa Good exterior durabil Good corrosion resista Good chemical resista Excellent adhesion Non-toxic	ity ance				
Powder Properties	Chemistry		A thermosetting epoxy-polyester resin system.			
	Application		Corona electrostatic spray. The system can be modified for Tribo application as required.			
	Gloss (ISO 2813)		Gloss >80% Semi-Gloss 50-70% Matt 25-35%			
	Specific Gravity		$1.40 - 1.70 \text{ g/cm}^3$ 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		Typical: 10 minutes at 180 Celsius (object temperature) see box label for curing conditions.			
Biocidal Data			Challenged wi	th MRSA	Challenged with <i>E-Coli</i>	
(from Hybrid Anti-Bac)	% reduction vs control			99.98%	99.9999%	
	% reduction vs initial inoculum			99.994%	99.996%	
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	zinc phos	nc phosphate phate or chromate conve conversion	rsion		
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 I		uchholtz Indentation >80			
	Flexibility ISO 1519 C		Cylindrical Mandrel	Pass >5mm		
	Adhesion ISO 2409		mm Crosshatch Pass Gt0			
	Cupping ISO 1520		Erichsen	richsen Pass >5mm		
	Impact BS 3900: Part E7		>25kg cm (N)			

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Neutral Salt Fog	ASTM B117 (500 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.			
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				
The Polyester Anti-Bac range is available as a smooth finish, a fine sandpaper texture or a ripple texture.				
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).				
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.				
	Mortar Resistance Boiling Water Humidity Chemical Resistance All colours from BS 525 submitted colour stand The Polyester Anti-Bac This product range con cadmium or hexavalen polybrominated dipher This product is intende	Mortar Resistance ASTM C207 Boiling Water 2 hours boiling water Humidity BS 3900 Part F2 Chemical Resistance Resistant to most acids, alkalis and of a colours from BS 5252, BS 4800, BS 381C, RAL Classic, RAL Cl		

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