

HMG Powder Coatings Limited

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Infrared Reflective Light Stone BS 381C 361

Product Description	An outdoor durable sy	stem specifi	cally formulated to meet	the requirements of military standards:	
	 DEF STAN 80-122 Issue 3 DEF STAN 00-23 Issue 4 				
	In addition to the above, the product offers excellent flow, high corrosion resistance, optimum mechanical properties and excellent gloss retention.				
Key Benefits	An infrared reflective s Good corrosion resista Good chemical resistal Excellent adhesion Non-toxic	nce			
Powder Properties	Chemistry		A thermosetting carbox	ylated polyester resin system.	
	Application		Corona electrostatic spray.		
	Coating Thickness (DFT)		General recommendation is 60-100 microns (μ m), with a minimum thickness of 60 μ m.		
	Gloss (ISO 2813)		Matt 7-10% measured on a 60° head.		
	Specific Gravity		1.70 g/cm ³		
	Coverage (theoretical)		From 9 m ² /kg at 60 microns film thickness.		
	Particle Size (BS 3900: J2)		< 0.1% m/m retained on a 150 microns sieve		
	Storage & Shelf Life		When stored in a cool (<20°C), dry environment: 12 months.		
	Curing Schedule		10 minutes at 200 Celsius (object temperature)		
Infrared Reflectance	DEF STAN 00-23 Annex	(A	Pass – 40-50% between	700 and 1200 nanometers	
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 iron or zinc phosphate Zinc coated steel zinc phosphate or chromate conversion Aluminium chromate conversion		sion		
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	<mark>Cylindr</mark> ical 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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Corrosion and Durability	Neutral Salt Fog	ASTM B117 (250 hours)	Pass – Corrosion creep <2mm from scratch		
	Suphur Dioxide Resistance	ISO 3231 Kesternich	After 24 cycles, no infiltration beyond 1mm of 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		
	Natural Weathering	After 12 months, minimal loss of or reduction in protective properties.	of gloss or colour change. No film breakdown erties		
	Chemical Resistance	Resistant to most acids, alkalis and oils.			
Colour Availability	A close match to BS 381C 361 Light Stone				
	Other colours in the range:				
	 Federal Standard 33446 Desert Tan 686 BS 381C 285 NATO Green RAL 6014 Yellow Olive Black 				
	Other colours are available on request. Normally a colour standard reference, infrared reflectance criteria and ideally a military standard specification should be included with a request for a new colour.				
Restriction of Hazardous Substances (RoHS/RoHS2)	This product 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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