

HMG Powder Coatings Limited

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Infrared Reflective NATO Green BS 381C 285

Product Description	An outdoor durable system specifically 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 surface, designed to mimic the IRR signal of foliage Good corrosion resistance Good chemical resistance Excellent adhesion Non-toxic			
Powder Properties	Chemistry	A thermosetting carbox	xylated polyester resin system.	
	Application	Corona electrostatic sp	ray.	
	Coating Thickness (DFT)	General recommend <mark>ati</mark> thickness of 60 μm.	General recommendation is 60-100 microns (μm), with a minimum thickness of 60 μm .	
	Gloss (ISO 2813)	Matt 7-10% measured	Matt 7-10% measured on a 60° head.	
	Specific Gravity	1.60 g/cm ³		
	Coverage (theoretical)	From 10 m ² /kg at 60 m	icrons film thickness.	
	Particle Size (BS 3900: J2)	< 0.1% m/m retained o	n a 150 microns sieve	
	Storage & Shelf Life	When stored in a cool (<20°C), dry environment: 12 months.	
	Curing Schedule	10 minutes at 200 Cels	ius (object temperature)	
In <mark>frared Reflectance</mark>	DEF STAN 00-23 Annexes B	and C Pass		
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			
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 ISC	2815 Buchholtz Indentation	>80	
	Flexibility ISC	1519 Cylindrical Mandrel	Pass >5mm	
	Adhesion ISC	2409 2mm Crosshatch	Pass Gt0	
	Cupping ISC	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	
	Sulphur 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 prope	gloss or colour change. No film breakdown rties	
	Chemical Resistance	Resistant to most acids, alkalis a	nd oils.	
Colour Availability	A close match to BS 381C 285 NATO Green			
	Other colours in the range:			
	 Federal Standard 33446 Desert Tan 686 BS 381C 361 Light Stone 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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