



# 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

## Polyester Ripple

<b>Product Description</b>	Designed for both exterior and internal use, this range of powder coatings offers both excellent outdoor durability and decorative aspect. These structured finishes, often interchangeably described as “Ripple”, “Leatherette”, “Coarse Texture”, or “River Textures”, are attractive tactile coatings and are often used in street furniture, garden furniture, handrails, electrical cabinets, etc. Their uneven surface covers many small manufacturing flaws that may be present in the underlying surface.		
<b>Powder Properties</b>	Chemistry	Thermosetting carboxylated polyester cured with a multifunctional curing agent.	
	Application	Corona electrostatic spray. The system can be modified for Tribo application as required.	
	Coating Thickness (DFT)	Depending on covering power and shade, general recommendation is 80-120 microns ( $\mu\text{m}$ ), with a minimum thickness of 60 $\mu\text{m}$ . The appearance of structured finishes will be affected by film thickness and our recommendation is to ensure a tightly controlled DFT range.	
	Gloss (ISO 2813)	Gloss Semi-Gloss Matt	
	Specific Gravity	1.40 – 1.70 g/cm <sup>3</sup> depending on colour.	
	Coverage	From 10-14 m <sup>2</sup> /kg at 60 microns film thickness.	
	Storage & Shelf Life	When stored in a cool (<20°C), dry environment: 12 months.	
	Curing Schedule	See box label for curing conditions. Typical object temperature conditions are: <ul style="list-style-type: none"><li>• 10 minutes at 180 Celsius</li></ul>	
<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	>20kg cm (N)
<b>Corrosion and Durability</b>	Sulphur Dioxide	Kesternich Test ISO 3231	After 24 cycles, infiltration <1mm from scratch
	Neutral Salt Fog	ASTM B117 (500 hours)	Corrosion creep <2mm from scratch Adhesion – Gt0
	Mortar Resistance	ASTM C207	Easy to remove. No staining
	Boiling Water	2 hours boiling water	No defects or detachments
	Humidity	BS3900: Part F2	Pass. 1000 hours without any effect.

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	Exterior Durability	After 12 months, minimal loss of gloss or colour change. No film breakdown or reduction in protective properties
<b>Chemical Resistance</b>		The range shows excellent resistance to water, brine, hydrochloric acid, dilute sulphuric, acetic and phosphoric acids, dilute alkalis, peroxides and bleach, alcohols and urea.
<b>Fire Resistance</b>	<b>Construction</b>	The range has been tested to the requirements of EN 13823 and ISO 1716 and is classified as <b>A2 s1 d0</b> according to EN 13501-1
	<b>Rail</b>	Additional to the above, the range has been tested to EN 45545-2+A1 Annex C and meets the requirements of London Underground S1085 'Fire Safety Performance of Materials'
<b>Colour Availability</b>		A range of BS and RAL colours are available from stock.  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>RoHS/RoHS2/RoHS3</b>		This product range conforms to the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations Directives. Refer to our full statement on the <a href="http://hmgpowdercoatings.co.uk">hmgpowdercoatings.co.uk</a> website.
<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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