

HMG Powder Coatings Limited

Dill Road, Castlereagh Industrial Estate, Belfast, BT6 9HU Tel. +44 (028) 9079 4930 Fax. +44 (028) 9040 1187

 $e\hbox{-mail: sales@hmgpowdercoatings.co.uk}$

Ероху

Product Description	Epoxy powder coatings typically offer an outstanding flow and aesthetical appearance. The range may be used for decorative purposes; however the binder system is particularly suited to applications where the user requires resistance to aggressive environments. There are many applications for this range, particularly in the functional coatings market, for example Busbar insulation, water pipe protection, acid battery casings, brake pad coating, etc. Additionally, their chemical properties make epoxy systems highly suitable for heat resistant applications such as fire surrounds, guards, etc.					
Key Benefits	Excellent corrosion resistance Excellent chemical resistance Excellent adhesion High surface hardness					
Powder Properties	Chemistry		A thermosetting epoxy resin system.			
	Application		Corona electrostatic spray. The system can be modified for Tribo application as required.			
	Gloss (ISO 2813)		A range from Dead Matt (<10%) to Gloss (>85%).			
	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. Epoxy systems can be modified for fast cure/low bake applications.			
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:					
	Zinc coated steel zinc phosp		nc phosphate phate or chromate conversion 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 E	Buchholtz Indentation	>80		
	Flexibility	ISO 1519 (Cylindrical Mandrel	Pass >5mm		
	Adhesion	ISO 2409 2	2mm Crosshatch	Pass Gt0		
	Cupping	ISO 1520 E	Erichsen	Pass >5mm		
	Impact	BS 3900: Part E7		>25kg cm (N)		

HMG Powder Coatings Ltd (HMG) decline any liability with respect to the use made by anyone of the information contained herein. The information contained herein represents HMG's best knowledge thereon without constituting any express or implied guarantee or warranty of any kind (including, but not limited to, regarding the accuracy, the completeness or relevance of the data set out herein). HMG is the sole owner or authorised user of the intellectual property rights relating to the information communicated. The information relating to the use of the products is given for information purposes only. No guarantee or warranty is provided that the product is adapted for any specific use. The user or purchaser should perform its own tests to determine the suitability for a particular purpose. The final choice of use of a product remains the sole responsibility of the user.

Ероху

Corrosion and Durability	Salt Fog	ISO 7253 (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	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				
Restriction of Hazardous Substances (RoHS)	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).				
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.				

HMG Powder Coatings Ltd (HMG) decline any liability with respect to the use made by anyone of the information contained herein. The information contained herein represents HMG's best knowledge thereon without constituting any express or implied guarantee or warranty of any kind (including, but not limited to, regarding the accuracy, the completeness or relevance of the data set out herein). HMG is the sole owner or authorised user of the intellectual property rights relating to the information communicated. The information relating to the use of the products is given for information purposes only. No guarantee or warranty is provided that the product is adapted for any specific use. The user or purchaser should perform its own tests to determine the suitability for a particular purpose. The final choice of use of a product remains the sole responsibility of the user.