

Interpon MR

Product Description: **Interpon MR** is a range of aluminium metallic powder coatings offering considerably improved resistance to degradation caused by exposure to conditions of high temperature and humidity. The metallic lustre of the coating can be maintained for many times* longer than a standard aluminium metallic coating.

Interpon MR products are available in a range of chemistry types and can be custom matched to shade to meet the user's requirements.

**Dependant on product type*

Powder Properties:	Chemical type	Various - depends upon end use
	Particle size	Suitable for electrostatic spray
	Specific gravity	1.2-1.7 g/cm ³ dependent on product
	Storage	Dry cool conditions below 25°C <i>(open boxes must be resealed)</i>
	Shelf life	12 months
	Stoving schedule (object temperature)	To match user's requirements

Test Conditions: The results shown below are based on mechanical and chemical tests which (unless otherwise indicated) have been carried out under laboratory conditions, using an Interpon 700 hybrid powder, and are given for guidance only. Actual product performance will depend upon the circumstances under which the product is used.

	Substrate	Mechanical tests: Polished steel Chemical & durability tests: Steel		
	Pretreatment	Zinc phosphate		
Mechanical Tests:	Film Thickness	60 microns		
	Stoving	10 minutes at 180°C (object temperature)		
	Flexibility	ISO6860 (Conical Mandrel)	Pass 3mm	
	Adhesion	BS EN ISO2409 (2mm Crosshatch)	Gt 0	
	Erichsen Cupping	ISO1520	Pass >7mm	
	Hardness	BS EN ISO1518 (2000gms)	Pass - no penetration to substrate	
	Impact	BS3900-E3	Pass 2.5mm	
	Chemical and Durability Tests:	Salt Spray	ISO7253 (250 hours)	Pass - no corrosion creep more than 2mm from scribe
		Cyclic Humidity	BS3900-F2 (1,000 hours)	Pass - no blistering Extended resistance to darkening & loss of gloss
		Distilled Water Immersion	BS3900-F7 (240 hours)	Pass - no blistering or loss of gloss
Chemical Resistance			Generally good resistance to acids, alkalis & oils at normal temperatures	

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Pretreatment: Aluminium, steel or Zintec surfaces to be coated must be clean and free from grease. Iron phosphate and particularly lightweight zinc phosphating of ferrous metals improves corrosion resistance.

Aluminium substrates may require a chromate conversion coating.

Application: **Interpon MR** powders can be applied by manual or automatic electrostatic spray equipment. Unused powder can be reclaimed using suitable equipment and recycled through the coating system.
Interpon MR powders are available in bright aluminium finishes, which are susceptible to scratching and finger marking. Protection by use of clear polyester topcoat is recommended when the coated article is to be subjected to physical damage or outdoor environments. The topcoat should ideally be applied within 2 hours of the metallic coating and gloves should be worn when handling the metallic coated article.

Additional Information: For further details on powder properties and film performance of **Interpon MR** please contact Akzo Nobel.

Safety Precautions: When using do not eat, drink or smoke. Do not breathe the dust. In case of insufficient ventilation wear suitable respiratory equipment. For further information please refer to the specific product Material Safety Data Sheet (MSDS).

Disclaimer: The information given in this sheet is not intended to be exhaustive and any person using the product for any purpose other than that specifically recommended in this sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so at his own risk. Whilst we endeavour to ensure that all advice we give about the product (whether in this sheet or otherwise) is correct we have no control over either the quality or condition of the substrate or the many factors affecting the use and application of the product. Therefore, unless we specifically agree in writing to do so, we do not accept any liability whatsoever or howsoever arising for the performance of the product or for any loss or damage (other than death or personal injury resulting from our negligence) arising out of the use of the product. The information contained in this sheet is liable to modification from time to time in the light of experience and our policy of continuous product development.
