

Product Datasheet



BU Powder Coatings

AkzoNobel
Tomorrow's Answers Today

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 on end-use	
Particle Size	Suitable for electrostatic application	
Specific gravity	1.2 – 1.7 g/cm ³	
Storage	Dry cool conditions below 25°C	<i>(open boxes must be resealed)</i>
Shelf Life	12 months	
Stoving schedule	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** 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	
Film Thickness	60 microns	
Stoving	10 minutes at 180°C (object temperature)	

Mechanical Tests

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	

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.

Safety Precautions Please consult the Material Safety Datasheet (MSDS)

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IMPORTANT NOTE The information in this data sheet is not intended to be exhaustive and is based on the present state of our knowledge and on current laws: any person using the product for any purpose other than that specifically recommended in the technical data 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. It is always the responsibility of the user to take all necessary steps to fulfill the demands set out in the local rules and legislation. Always read the Material Data Sheet and the Technical Data Sheet for this product if available. All advice we give or any statement made about the product by us (whether in this data sheet or otherwise) is correct to the best of our knowledge but we have no control over the quality or the condition of the substrate or the many factors affecting the use and application of the product. Therefore, unless we specifically agree in writing otherwise, we do not accept any liability whatsoever for the performance of the product or for any loss or damage arising out of the use of the product. All products supplied and technical advice given are subject to our standard terms and conditions of sale. You should request a copy of this document and review it carefully. The information contained in this data sheet is subject to modification from time to time in the light of experience and our policy of continuous development. It is the user's responsibility to verify that this data sheet is current prior to using the product.

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