

Product Data Sheet

AkzoNobel Powder Coatings

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 spray
Specific gravity	1.2-1.7 g/cm ³ depending on colour
Storage	Dry cool conditions below 25°C (open boxes must be resealed)
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 and are given for guidance only. Actual product performance will depend upon the circumstances under which the product is used.

Substrate	Gold Seal polished steel
Pretreatment	Lightweight Zinc phosphate
Film Thickness	60 microns
Stoving Schedule	10 minutes at 180°C (object temperature)

Mechanical Tests

Flexibility (Conical Mandrel)	ISO6860	3mm
Adhesion (2mm Crosshatch)	ISO2409	Gt 0
Erichsen Cupping	ISO1520	7 mm
Hardness (2000 gms)	ISO1518	No penetration to substrate
Impact (direct/indirect)	ISO 6272	2.5mm

Chemical and Durability Tests

Salt Spray (250 hours)	ISO7253	No corrosion creep more than 2mm from scribe
Cyclic Humidity (1000 hours)	ISO 6270-1	No blistering or loss of gloss
Distilled Water Immersion (240 hours)	ISO 2812	No blistering or loss of gloss
Chemical Resistance	Generally excellent resistance to most acids, alkalis and oils at normal temperatures	

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Pre-treatment

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)

Disclaimer

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 advices 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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Interpon MR - Issue 6
Issued: 01.12.2014 Revision Date: 01.12.2014

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