

Product Data Sheet

AkzoNobel Powder Coatings

Interpon Express colorvisual - Mica Special Effects

Product Description

Interpon Express colorvisual – Mica Special Effects are a series of polyester based powder coatings, formulated without TGIC and suitable for both internal and external use.

Powder Properties

Chemical type	TGIC-free Polyester
Particle Size	Suitable for electrostatic spray
Specific gravity	1.2 – 1.8 g/cm ³ depending on colour
Storage	Dry cool conditions below 25°C
Shelf life	12 months
Sales Code	W-series
Stoving schedule (object temperature)	20 minutes at 180°C 15 minutes at 190°C 10 minutes at 200°C

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.

	Iron Phosphate	Iron Phosphate + 10 - 12µm Cataphoretic primer (2 pack epoxy)
Substrate	Mechanical Tests: steel Chemical and Durability Tests: steel	Mechanical tests: steel Chemical & durability tests: steel
Pretreatment	Iron phosphate	Iron phosphate and electrocoat (cathode deposition)
Film Thickness	50 microns	50 microns
Stoving	10 minutes at 200°C (object temperature)	10 minutes at 200°C (object temperature)

Mechanical Tests

	Iron Phosphate		Iron Phosphate + 10 - 12µm Cataphoretic primer (2 pack epoxy)	
Flexibility	ISO6860 (Conical Mandrel)	Pass < 5mm	ISO6860 (Conical Mandrel)	Pass < 5mm
Adhesion	BS EN ISO 2409 (2mm Crosshatch)	Gt 0	BS EN ISO 2409 (2mm Crosshatch)	Gt 0
Erichsen Cupping	ISO1520	Pass >4mm	ISO1520	Pass >4mm
Hardness	BS EN ISO 1518	Pass - no penetration to substrate (>HF - F)	BS EN ISO 1518	Pass - no penetration to substrate (>2H – 3H)
Impact	BS3900-E3	Pass 2.5mm direct	BS3900-E3	Pass 2.5mm direct and reverse

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Chemical and Durability Tests

	Iron Phosphate	Iron Phosphate + 10 - 12µm Cataphoretic primer (2 pack epoxy)
Salt Spray	ISO7253 (300 hours)	Pass - no corrosion creep more than 5mm from scribe. No blistering
Cyclic Humidity	BS3900-F2 (500 hours)	Pass - no blistering or loss of gloss
Distilled Water Immersion	BS3900-F7 (240 hours)	Pass - no blistering or loss of gloss
Detergent Resistance	1.5% Persil @ 75°C (20 hours)	Slight loss of gloss
Exterior Durability	Excellent - no chalking, slight loss of gloss after 12 months continuous exposure but no film breakdown or reduction in protective properties	
Chemical Resistance	Generally good resistance to acids and alkalis at normal temperatures	

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 Express colorvisual – Mica Special Effects can be applied by manual or automatic electrostatic spray equipment. The use of a fluid-bed is recommended. It is recommended that powder film thickness be between 60-100 microns in order to give the best visual, chemical and durability properties. As the effect can depend upon film thickness, the coating should be applied as evenly as possible to achieve a consistent effect.

Interpon Express colorvisual – Mica Special Effects products may have slightly different application characteristics than conventional powders. For guideline, please refer to the Application Notes available from Akzo Nobel and attached to the box.

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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AkzoNobel Powder Coatings B.V. T +31 (0)71 308 6981
 24 Rijkstraatweg F +31 (0)71 318 6924
 31 / PO Box 32170 BA www.interpon.com
 Sassenheim
 The Netherlands

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