

# Interpon *Express colorvisual* – Mica Special Effects

**Product Description:** **Interpon *Express colorvisual* - Mica Special Effects** are a series of polyester based powder coatings, formulated without the use of TGIC and suitable for both internal and exterior us

<b>Powder Properties:</b>	<b>Chemical type</b>	TGIC-free Polyester
	<b>Particle size</b>	Suitable for electrostatic spray
	<b>Specific gravity</b>	1.2-1.8 g/cm <sup>3</sup> depending on colour
	<b>Storage</b>	Dry cool conditions below 25°C
	<b>Shelf life</b>	12 months
	<b>Sales Code</b>	W-series
	<b>Stoving schedule</b>	20 minutes at 180°C
	(object temperature)	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.

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

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

	<b>Iron Phosphate</b>		<b>Iron Phosphate + 10 - 12µm Cataphoretic primer (2 pack epoxy)</b>	
<b>Salt Spray</b>	ISO7253 (300 hours)	Pass - no corrosion creep more than 5mm from scribe. No blistering	ISO7253 (500 hours)	Pass - no corrosion creep more than 5mm from scribe. No blistering
<b>Cyclic Humidity</b>	BS3900-F2 (500 hours)	Pass - no blistering or loss of gloss	BS3900-F2 (700 hours)	Pass - no blistering or loss of gloss
<b>Distilled Water Immersion</b>	BS3900-F7 (240 hours)	Pass - no blistering or loss of gloss	BS3900-F7 (240 hours)	Pass - no blistering or loss of gloss
<b>Detergent Resistance</b>	1.5% Persil @ 75°C (20 hours)	Slight loss of gloss	1.5% Persil @ 75°C (40 hours)	Slight loss of gloss
<b>Exterior Durability</b>		Excellent - no chalking, slight loss of gloss after 12 months continuous exposure but no film breakdown or reduction in protective properties.		Excellent - no chalking, slight loss of gloss after 12 months continuous exposure but no film breakdown or reduction in protective properties
<b>Chemical Resistance</b>		Generally good resistance to acids, alkalis and oils at normal temperatures		Generally good resistance to acids, alkalis and 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.

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**Application:** **Interpon Express colorvisual - Mica Special Effects** powders 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 on film thickness, the coating should be applied as evenly as possible to achieve a consistent effect.

**Interpon Express colorvisual - Mica Special Effects** powders 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

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**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).

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**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.

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