

Interpon Express

colorvisual Solid shades

Product Description: Interpon Express colorvisual Solid Shade products are a series of polyester based powder coatings formulated without the use of TGIC. Designed for interior and exterior end uses, the single coat finish offers excellent light and weather resistance on a variety of substrates.

Powder Properties:	Chemical type	TGIC-free Polyester
	Gloss (standard)	colorvisual products are 80±5% <i>Note: Any gloss level is available from 20-90%.</i>
	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
	Shelf life	12 months
	Sales Code	V-series
	Stoving schedule	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.

	Iron Phosphate		Iron Phosphate + 10 - 12µm Cataphoretic primer (2 pack epoxy)	
Substrate	Mechanical tests: steel		Mechanical tests: steel	
	Chemical & durability 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)
Adhesion	BS EN ISO 2409 (2mm Crosshatch)	Gt 0	BS EN ISO 2409 (2mm Crosshatch)	Gt 0
Erichsen Cupping	ISO1520	Pass >7mm	ISO1520	Pass >7mm
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 and reverse	BS3900-E3	Pass 2.5mm direct and reverse

Chemical & 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	ISO7253 (500 hours)
Cyclic Humidity	BS3900-F2 (500 hours)	Pass - no blistering or loss of gloss	BS3900-F2 (700 hours)	Pass - no blistering or loss of gloss
Distilled Water Immersion	BS3900-F7 (240 hours)	Pass - no blistering or loss of gloss	BS3900-F7 (240 hours)	Pass - no blistering or loss of gloss
Detergent Resistance	1.5% Persil @ 75°C (20 hours)	Slight loss of gloss	1.5% Persil @ 75°C (40 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.		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, 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.

Application: **Interpon Express colorvisual Solid Shades** 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 50-90 microns. For best results this powder has been designed to be applied at a voltage of no higher than 80kV. Unused powder can be reclaimed using suitable equipment and recycled through the coating system.

Interpon Express colorvisual Solid Shade 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: 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.