

Interpon *Express*

Special Effects

Product Description: **Interpon Express Special Effects** are polyester based powder coatings, formulated without the use of TGIC and suitable for both internal and exterior use.

Interpon Express Special Effects powders are available in a wide range of colours in both gloss and matt finishes.

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	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.

Substrate	Mechanical tests: Gold Seal polished steel Chemical & durability tests: Gold Seal lightweight
Pretreatment	Zinc phosphate
Film Thickness	70 microns
Stoving	10 minutes at 200°C (object temperature)

Mechanical Tests:	Flexibility	ISO6860	Pass 3mm (Conical Mandrel)
	Adhesion	BS EN ISO2409 (2mm Crosshatch)	Gt 0
	Erichsen Cupping	ISO1520	Pass >4mm
	Hardness	BS EN ISO 1518 (2000gms)	Pass - no penetration to substrate
	Impact	BS3900-E3	Pass 2.5mm direct and reverse

Chemical and Durability Tests:	Salt Spray	ISO7253 (250 hours)	Pass - no corrosion creep more than 2mm from scribe.
	Cyclic Humidity	BS3900-F2 (1000 hours)	Pass - no blistering or loss of gloss
	Distilled Water Immersion	BS3900-F7 (240 hours)	Pass - no blistering or 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, 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 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 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.

Safety Precautions: This product is intended for use only by professional applicators in industrial environments and should not be used without reference to the relevant health and safety data sheet which Akzo Nobel has provided to its customer. If for any reason a copy of the relevant health and safety data sheet is not immediately available the user should contact Akzo Nobel to obtain a copy before using the product. Minimum safety precautions in dealing with all powder coatings are as follows: All dusts are respiratory irritants. Therefore, inhalation of the dust or of the vapours resulting from the cure should be avoided. Take steps to prevent skin contact, but should contact occur, wash skin with soap and water. In case of eye contact flush immediately with clean water and seek medical advice. Dust clouds of any finely divided organic material can be ignited with an electric spark or open flame. Dust and powder should not be allowed to build up on surfaces or ledges. Dust collection equipment should be used which has provision for adequate explosion release. All equipment should be electrically earthed to prevent build up of static. Users are recommended to follow the guidelines laid down in the "Code of Safe Practices" issued by the British Coatings Federation, copies of which are available on request.

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.