

Interpon 810

Product Description:

Interpon 810 is a series of high durability powder coatings, formulated without TGIC, designed for exterior exposure. Tested against the most severe specifications **Interpon 810** gives significantly improved gloss retention and resistance to colour change.

Interpon 810 powders are available in a wide range of colours and gloss levels and can be custom matched to the user's requirements.

Powder Properties:

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	M-series
Stoving schedule	15 minutes at 190°C
(object temperature)	10 minutes at 200°C
	8 minutes at 210°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	Aluminium
Pretreatment	Chromate conversion
Film Thickness	60 microns
Stoving	10 minutes at 200°C (object temperature)

Mechanical Tests:

Flexibility	BS3900-E11 (Conical Mandrel)	Depends on shade
Adhesion	BS3900-E6 (2mm Crosshatch)	0
Erichsen Cupping	BS3900-E4	Depends on shade
Hardness	BS3900-E2 (4000gms)	Pass - no penetration to substrate
Impact	BS6496 Clause 16	Depends on shade

Chemical and

Durability Tests:

Salt Spray	ASTM B117 (1000 hours)	Pass - no corrosion creep more than 2mm from scribe.
Acetic Acid Salt Spray	BS6496 Clause 15 (1000 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
Sulphur Dioxide	BS3900-F8 (240 hours)	Pass - no blistering, loss of gloss or discolouration.
Exterior Durability	Up to 5 years Florida exposure	Excellent colour and gloss retention performance (depends on shade).
Colour Stability at elevated temperatures		Excellent
Chemical Resistance		Generally good resistance to most acids, alkalis and oils at normal temperatures.

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Pretreatment:

For maximum protection it is essential to pretreat components for exterior use prior to the application of **Interpon 810**. Aluminium components should receive a full multi-stage chromate conversion coating to clean and condition the substrate. Detailed advice should be sought from the pretreatment supplier.

Galvanised steel also requires multi-stage pretreatment using either zinc phosphate or chromate conversion. Degassing of galvanised steel prior to powder application is considered mandatory - follow the procedural advice of the pretreatment supplier.

Interpon 810 products may also be used on other substrates (eg. mild steel fabrications) for internal applications, nevertheless zinc phosphate pretreatment is regarded as essential.

Application:

Interpon 810 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.

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.