

# Product Datasheet



## BU Powder Coatings

**AkzoNobel**  
Tomorrow's Answers Today

### 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:

<b>Particle size</b>	Suitable for electrostatic spray
<b>Specific gravity</b>	1.2 - 1.7 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>	M-series
<b>Stoving schedule</b>	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.

<b>Substrate</b>	Aluminium
<b>Pretreatment</b>	Chromate conversion
<b>Film Thickness</b>	60 microns
<b>Stoving</b>	10 minutes at 200°C (object temperature)

#### Mechanical Tests

<b>Adhesion</b>	BS EN ISO2409 (2mm Crosshatch)	Gt 0
<b>Erichsen Cupping</b>	ISO1520	Depends on shade
<b>Hardness</b>	BS EN ISO1518 (4000gms)	Pass - no penetration to substrate
<b>Impact</b>	BS6496 Clause 16	Depends on shade
<b>Flexibility</b>	ISO6860 (Conical Mandrel)	Depends on shade

#### Chemical and Durability Tests

<b>Salt Spray</b>	ISO7253 (1000 hours)	Pass - no corrosion creep more than 2mm from scribe
<b>Acetic Acid Salt Spray</b>	ISO9227 (1000 hours)	Pass - no corrosion creep more than 2mm from scribe
<b>Cyclic Humidity</b>	BS3900-F2 (1000 hours)	Pass - no blistering or loss of gloss
<b>Distilled Water Immersion</b>	BS3900-F7 (240 hours)	Pass - no blistering or loss of gloss
<b>Sulphur Dioxide</b>	ISO6270 (240 hours)	Pass - no blistering, loss of gloss or discolouration
<b>Exterior Durability</b>	Up to 5 years Florida exposure	Excellent colour and gloss retention performance (depends on shade)
<b>Colour Stability at elevated temperatures</b>	Excellent	
<b>Chemical Resistance</b>	Generally good resistance to most acids, alkalis and oils at normal temperatures	

**Interpon**  
powder coatings  
EVERY COLOR IS GREEN

## 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.

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## 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.

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## Safety Precautions

Please consult the Material Safety Datasheet (MSDS)

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### FOR PROFESSIONAL USE ONLY

**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 advice 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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