

# Product Datasheet



## BU Powder Coatings

### Interpon AC

**AkzoNobel**  
Tomorrow's Answers Today

#### Product Description

The **Interpon AC** range of powders offer significant advantages to users of powder coatings. They maintain all of the film performance attributes of conventional powders, but with much improved application properties. They can be sprayed on conventional equipment and are compatible\* with standard powders but give a more uniform coverage, and in particular give improved coverage in Faraday Cage areas.

**Interpon AC** powders are available in a range of chemistry types and colours in gloss and reduced gloss finishes, and are always custom matched to the user's requirements.

#### Powder Properties

<b>Chemical type</b>	Various - depends on end use
<b>Particle Size</b>	Suitable for spray application
<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>	5-series
<b>Stoving schedule</b>	To match user's requirements

#### 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>	Mechanical tests: Polished Steel Chemical & durability tests: Steel
<b>Pretreatment</b>	Zinc phosphate
<b>Film Thickness</b>	50 microns
<b>Stoving</b>	10 minutes at 180°C (object temperature)

#### Mechanical Tests

<b>Adhesion</b>	BS EN ISO2409 (2mm Crosshatch)	Gt 0
<b>Erichsen Cupping</b>	ISO1520	Pass >7mm
<b>Hardness</b>	BS EN ISO1518 (2000gms)	Pass - no penetration to substrate
<b>Impact</b>	BS3900-E3	Pass 2.5 joules direct and reverse
<b>Flexibility</b>	ISO6860 (Conical Mandrel)	Pass 3mm

#### Chemical and Durability Tests

<b>Salt Spray</b>	ISO7253 (250 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>Chemical Resistance</b>	Generally excellent resistance to most acids, alkalis and oils at normal temperatures	
<b>Exterior Durability</b>	Some chalking after 6-12 months continuous outdoor exposure but less than pure epoxies. Protective properties not impaired.	
<b>Colour Stability at elevated temperatures</b>	Good - satisfactory for continuous exposure up to 125°C	

**Interpon**  
powder coatings  
EVERY COLOR IS GREEN

<b>Pretreatment</b>	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.
<b>Application</b>	<b>Interpon AC</b> powders can be applied by manual or automatic electrostatic spray equipment. The full benefits are realised on automatic equipment, or automatic with manual touch-in. Unused powder can be reclaimed using suitable equipment and recycled through the coating system.  Best results are normally achieved when Akzo Nobel technical service personnel help to optimise the running conditions on-line.
<b>Additional Information</b>	For further details on powder properties and film performance of <b>Interpon AC</b> please contact Akzo Nobel.
<b>Safety Precautions</b>	Please consult the Material Safety Datasheet (MSDS)

## 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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