

# Product Datasheet



## BU Powder Coatings Interpon 100

**AkzoNobel**  
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### Product Description

**Interpon 100** is a series of epoxy based powder coatings designed to give optimum mechanical performance and exceptional protective qualities on fabrications and components where long term exposure to ultra violet light or exterior weathering is not anticipated. **Interpon 100** powders are available in gloss, satin, matt or textured finishes in a wide range of standard colours or can be custom matched to the user's requirements

### Powder Properties

<b>Chemical type</b>	Epoxy
<b>Sales Code</b>	A-series
<b>Particle Size</b>	Suitable for electrostatic spray
<b>Specific gravity</b>	1.2-1.8 g/cm <sup>3</sup> depending on colour
<b>Storage</b>	Dry cool conditions below 25°C (open boxes must be resealed)
<b>Shelf life</b>	12 months
<b>Stoving schedule</b> <sup>(a)</sup>	20 minutes at 160°C (object temperature) 10 minutes at 180°C 5 minutes at 200°C

(a) For full matt powders add 5 minutes to the times. For high reactivity (HR) powders see overleaf

### 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: Gold Seal polished steel Chemical & durability tests: Gold Seal lightweight
<b>Pretreatment</b>	Zinc Phosphate
<b>Film Thickness</b>	50 microns
<b>Stoving schedule</b>	5 minutes at 200°C (object temperature)

### Mechanical Tests

<b>Flexibility</b>	ISO 6860 (Conical Mandrel)	Pass 3 mm
<b>Adhesion</b>	BS EN ISO 2409 (2mm Crosshatch)	Gt 0
<b>Erichsen Cupping</b>	ISO 1520	Pass >7 mm
<b>Hardness</b>	BS EN ISO 1518 (2000 gms)	Pass - no penetration to substrate
<b>Impact</b>	ISO 6272 (1993)	Pass 2 mm direct and reverse

### Chemical and Durability Tests

<b>Salt Spray</b>	ISO 7253 (250 hours)	Pass - no corrosion creep more than 2mm from scribe
<b>Cyclic Humidity</b>	ISO 6270-1 (1000 hours)	Pass - no blistering or loss of gloss
<b>Distilled Water Immersion</b>	ISO 2812 (240 hours)	Pass - no blistering or loss of gloss
<b>Exterior Durability</b>	Some chalking and loss of gloss after 3-6 month continuous outdoor exposure. Protective properties retained.	
<b>Colour Stability at elevated temperatures</b>	Fair – gradual yellowing of white and pastel shades on continuous exposure above 100°C.	
<b>Chemical Resistance</b>	Generally good resistance to acids, alkalis and oils at normal temperatures	

**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 100</b> 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.
<b>Additional Information</b>	<b>Interpon 100HR</b> (High Reactivity) powders are also available for use where a lower stoving temperature or shorter curing schedule is required. <b>Sales code:</b> B-Series <b>Stoving schedule:</b> 30 minutes at 130°C (object temperature) 15 minutes at 150°C 5 minutes at 180°C <b>Shelf life:</b> 6 months For further details on powder properties and film performance of abcd <b>100HR</b> please contact AkzoNobel.
<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 advices 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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