

# Interpon 100

**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.

<b>Powder Properties:</b>	<b>Chemical type</b>	Epoxy
	<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
	<b>Shelf life</b>	12 months
	<b>Sales Code</b>	A-series
	<b>Stoving schedule<sup>(a)</sup></b>	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 times shown. 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</b>	5 minutes at 200°C (object temperature)	

<b>Mechanical Tests:</b>	<b>Flexibility</b>	BS3900-E11 (Conical Mandrel)	Pass 3mm
	<b>Adhesion</b>	BS3900-E6 (2mm Crosshatch)	0
	<b>Erichsen Cupping</b>	BS3900-E4	Pass >7mm
	<b>Hardness</b>	BS3900-E2 (2000gms)	Pass - no penetration to substrate
	<b>Impact</b>	BS3900-E3	Pass 2mm

<b>Chemical and Durability Tests:</b>	<b>Salt Spray</b>	ASTM B117 (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>Exterior Durability</b>		Some chalking and loss of gloss after 3-6 months 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

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<b>Chemical Resistance</b>	Generally excellent resistance to most acids, alkalis and oils at normal temperatures.
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<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.
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<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.
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<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.
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**Sales code:** B-Series

**Stoving schedule:** 30 minutes at 130°C

(object temperature) 15 minutes at 150°C

5 minutes at 180°C

**Shelf life:** 6 months

For further details on powder properties and film performance of **Interpon 100HR** please contact Akzo Nobel.

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<b>Safety Precautions:</b>	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.
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<b>Disclaimer:</b>	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.
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