

# Interpon 610 AB

The information given in this datasheet is generic for the range **Interpon 610AB**. Specific products within the range can vary from the generic. For these products individual product datasheets are available.

**Product Description:** **Interpon 610 AB** is a series of polyester based powder coatings, formulated without the use of TGIC, designed for the exterior environment, offering the benefits of **Interpon 610** in combination with specific antibacterial activity.

**Interpon 610 AB** powders are available in a wide range of colours in gloss, reduced gloss, textured and other special finishes or can be custom matched to the user's requirements.

<b>Powder Properties:</b>	<b>Chemical type</b>	Polyester
	<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>	18 months at 30°C 12 months at 35°C
	<b>Sales Code</b>	M-series
	<b>Stoving schedule<sup>(a)</sup></b>	15 - 30 minutes at 190°C
	(object temperature)	10 - 20 minutes at 200°C 8 - 16 minutes at 210°C
		(a) 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>Mechanical Tests:</b>	<b>Film Thickness</b>	60 - 70 microns		
	<b>Stoving</b>	10 minutes at 200°C (object temperature)		
	<b>Flexibility</b>	ISO6860 (Conical Mandrel)	Pass 3mm	
	<b>Adhesion</b>	ISO2409 (2mm Crosshatch)	Gt 0	
	<b>Erichsen Cupping</b>	ISO1520	Pass >7mm	
	<b>Hardness</b>	ISO 1518 (4000gms)	Pass - no penetration to substrate	
	<b>Impact</b>	ASTM D2794	Pass 25Kgcm direct and reverse	
	<b>Chemical and Durability Tests:</b>	<b>Salt Spray</b>	ISO7253 (240 hours)	Pass - no corrosion creep more than 2mm from scribe.
		<b>Constant Humidity</b>	ISO6270 (240 hours)	Pass - no blistering or loss of gloss
		<b>Distilled Water Immersion</b>	ISO2812 (240 hours)	Pass - no blistering or loss of gloss
<b>Exterior Durability</b>			Excellent - no chalking, slight loss of gloss after 12 months continuous exposure but no film breakdown or reduction in protective properties.	
<b>Chemical Resistance</b>			Generally good resistance to acids, alkalis and oils at normal temperatures.	

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**Pretreatment:** 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.

**Application:** **Interpon 610 AB** powders can be applied by manual or automatic electrostatic spray equipment. It is recommended that powder film thickness be between 60-110 microns. Unused powder can be reclaimed using suitable equipment and recycled through the coating system.

**Additional Information:** **Interpon 610 AB** has been evaluated versus the Japanese industrial Standard JIS Z2801:2000 and exhibited a minimum 90% reduction in bacterial population classified as "microbiological results satisfactory" where testing has been performed independently by competent external laboratories. The bacteria tested were:

Listeria monocytogenes  
Escheria coli 0157  
Salmonella enteritidis  
Staphylococcus aureus (resistant strain)  
Bacillus subtilis  
Pseudomonas auruginosa  
Salmonella typhimurium  
Streptococcus faecalis  
Legionella pneumophila  
Vibrio parahaemolyticus  
Enterobacter aerogenes

**Interpon 610 AB** High Reactivity powders are also available in selected grades for use where a lower stoving temperature or shorter curing schedule is required. More information is available upon request.

Interpon AB should not be used to substitute good hygienic practises. In Environments with aggressive atmospheres, e.g. steam, high humidity; or aggressive cleaning agents, the lifetime of the coating may be reduced.

**Safety Precautions:** When using do not eat, drink or smoke. Do not breathe the dust. In case of insufficient ventilation wear suitable respiratory equipment. For further information please refer to the specific product Material Safety Data Sheet (MSDS).

**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.