

# Interpon 610AB

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</b> <sup>(a)</sup>	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>Mechanical Tests:</b>	<b>Substrate</b>	Mechanical tests: Gold Seal polished steel Chemical & durability tests: Gold Seal lightweight	
	<b>Pretreatment</b>	Zinc phosphate	
	<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)
<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

# Interpon 610AB

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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.

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**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.

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**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.

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**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).

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**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.

# Interpon 700 AB

The information given in this datasheet is generic for the range **Interpon 700 AB**. Specific products within the range can vary from the generic. For these products individual product datasheets are available.

**Product Description:** **Interpon 700 AB** is a series of epoxy/polyester hybrid powder coatings offering the benefits of **Interpon 700** in combination with specific antibacterial activity.

**Interpon 700 AB** powders are available in a full 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>	Epoxy/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>	E-series
	<b>Stoving schedule<sup>(a)</sup></b>	15 - 30 minutes at 170°C
	(object temperature)	10 - 20 minutes at 180°C 6 - 12 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>	0.8mm Steel panels
	<b>Pretreatment</b>	Mechanical: Lightweight Iron Phosphate Chemical & Durability: lightweight Zinc phosphate
	<b>Film Thickness</b>	50 – 70 microns
	<b>Stoving</b>	10 minutes at 180°C (object temperature)
<b>Mechanical Tests:</b>	<b>Adhesion</b>	ISO2409 Gt 0 (2mm Crosshatch)
	<b>Erichsen Cupping</b>	ISO1520 Pass >7mm
	<b>Hardness</b>	ISO1580 Pass - no penetration to (4000gms) substrate
	<b>Impact</b>	ASTM D2794 Pass 25 Kgcm direct and reverse
	<b>Flexibility</b>	ISO6860 Pass 3mm (Conical Mandrel)
<b>Chemical and</b>	<b>Salt Spray</b>	ISO7253 Pass - no corrosion creep (240 hours) more than 2mm from scribe
	<b>Durability Tests:</b>	
	<b>Constant Humidity</b>	ISO6270 Pass - no blistering or loss (240 hours) of gloss
	<b>Distilled Water</b>	ISO2812 Pass - no blistering or loss Immersion (240 hours) of gloss
	<b>Exterior Durability</b>	Not recommended for exterior use. Chalking after 6-12 months continuous outdoor exposure. Protective properties not impaired
	<b>Colour Stability at elevated temperatures</b>	Good - satisfactory for continuous exposure up to 125°C
	<b>Chemical Resistance</b>	Generally excellent resistance to most acids and alkalis and oils at normal temperatures.

**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.

# Interpon 700 AB

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**Application:** **Interpon 700 AB** 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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**Additional Information:** **Interpon 700 AB** has been evaluated versus the Japanese Industrial Standard JIS Z2801:2000 and exhibited a minimum of 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
- Enterbacter aerogenes

**Interpon 700** (High Reactivity) powders are also available for use where a lower stoving temperature or shorter curing schedule is required.

**Sales code:** F-series

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**Stoving schedule:** 12 – 18 minutes at 160°C

(Object temperature) 4 – 6 minutes at 180°C

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**Shelf life:** 6 months

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For further details on powder properties and film performance of **Interpon 700HR** please contact Akzo Nobel.

Interpon AB should not be used to substitute good hygienic practises.

In environments with aggressive atmospheres eg steam, high humidity; or aggressive cleaning agents, the lifetime of the coating may be reduced.

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**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).

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