

# Product Datasheet



## BU Powder Coatings

**AkzoNobel**  
Tomorrow's Answers Today

### 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.

#### Powder Properties

<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> (object temperature)	15 – 30 minutes at 170°C 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)

#### Mechanical Tests

<b>Adhesion</b>	ISO2409 (2mm Crosshatch)	Gt 0
<b>Erichsen Cupping</b>	ISO1520	Pass >7mm
<b>Hardness</b>	ISO1580 (4000gms)	Pass - no penetration to substrate
<b>Impact</b>	ASTM D2794	Pass 25 Kgcm direct and reverse
<b>Flexibility</b>	ISO6860 (Conical Mandrel)	Pass 3mm

#### Chemical and Durability Tests

<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>	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.	

**Interpon**  
powder coatings  
EVERY COLOR IS GREEN

# Interpon 700 AB

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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 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** **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.

<b>Sales code:</b>	F-series
<b>Stoving schedule:</b>	12 – 18 minutes at 160°C
(Object temperature)	4 – 6 minutes at 180°C
<b>Shelf life:</b>	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** Please consult the Material Safety Datasheet (MSDS)

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## 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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