

# Product Datasheet



## BU Powder Coatings Interpon 310

**AkzoNobel**  
Tomorrow's Answers Today

### Product Description

**Interpon 310** is a series of polyester resin based thermo-setting powder coatings, without TGIC. The **Interpon 310** resin system is warning label free. The pigments used in the **Interpon 310** series restrict the field of application of this powder coatings class to interior uses. **Interpon 310** is designed for interior decoration : metal furniture, shop fittings, shelves, light fittings, ...

### Powder Properties

<b>Chemical type</b>	Polyester
<b>Particle Size</b>	Suitable for electrostatic spray
<b>Specific gravity</b>	1.2-1.95 g/cm <sup>3</sup> depending on colour and effect
<b>Storage</b>	Dry cool conditions below 35°C <i>(open boxes must be resealed)</i>
<b>Shelf life</b>	18 months at 30°C 12 months at 35°C
<b>Stoving schedule</b> (object temperature)	12 to 24 minutes at 180°C 8 to 16 minutes at 200°C 4 to 10 minutes at 210°C

### 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 0.5mm steel Chemical & durability tests: Gold Seal lightweight
<b>Pretreatment</b>	Zinc Phosphate
<b>Film Thickness</b>	80 microns
<b>Stoving schedule</b>	12 minutes at 200°C (object temperature)

### Mechanical Tests

		<b>Smooth</b>	<b>Fine Structure</b>	<b>Coarse Texture</b>
<b>Flexibility</b>	ISO 6860 (Cylindrical Mandrel)	Pass 6 mm	Pass 5 mm	Pass 5 mm
<b>Adhesion</b>	BS EN ISO 2409 (2mm Crosshatch)	Gt 0	Gt 0	Gt 0
<b>Erichsen Cupping</b>	ISO 1520	Pass >6 mm	Pass >6 mm	Pass >6 mm
<b>Impact</b>	ISO 6272 (1993)	1kg from 0.5m	1kg from 0.5m	1kg from 0.5m

### Chemical and Durability Tests

<b>Salt Spray</b>	ISO 7253 (250 hours)	250hr pass	250hr pass	250hr pass
<b>Cyclic Humidity</b>	ISO 6270-1 (1000 hours)	1000hr pass	1000hr pass	1000hr pass
<b>Chemical Resistance</b>		See additional information		

**Interpon**  
powder coatings  
EVERY COLOR IS GREEN

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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, chrome free pre-treatment or flash anodizing for certain applications.

Galvanised steel may require zinc or chromate conversion or sweep blasting.

*Detailed advice should be sought from the pre-treatment supplier*

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## Application

**Interpon 310** powder coatings can be applied by corona electrostatic or tribostatic equipment. **However the aspect obtained by tribostatic equipment may vary when compared to electrostatic application and/or our colour card.**

In all application processes the aspect obtained is subject to variation, depending on the method of application (type of gun, nozzle, pot etc) and the shape/type of component. We recommend that the actual application parameters are adapted and adjusted depending on the type of component and with each powder batch in order to give a finish in accordance with our colour card.

The following procedure is given as a guideline when using these finishes :

We recommend the use of flat jet spray nozzles. To ensure powder homogeneity empty the boxes totally into the tray or feed hopper. Only one spray run and one batch of powder should be used for components which are to be used in the same project.

For manual application it is essential to ensure that an even film thickness is applied and in all instances sinusoidal gun movements should be avoided.

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### Recycling

Depending of the product - Consult Technical Support of AkzoNobel.

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	Smooth	Fine Structure	Coarse Texture
<b>Recommended Film thickness</b>	60-80 microns	60-90 microns	80-100 microns

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## Additional Information

### Contact with Chemical Agents

Contact, even of a short duration with certain household products and chemicals, can cause irreversible changes in the gloss and appearance. We recommend that a test is carried out on a non-visible area before using these types of products on these coatings .

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### Exposure to aggressive Environments

Due to the high level of metallic particles some finishes are sensitive to aggressive environments (i.e. humid, or areas in which wear by rubbing occurs). For protection overcoating with a clear coat is recommended. When using a topcoat the application should be done immediately on the same site.

The maximum allowable period between coats is 2 hours.

For further information please contact AkzoNobel.

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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 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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