

# Product Datasheet



## BU Powder Coatings Interpon 700

**AkzoNobel**  
Tomorrow's Answers Today

### Product Description

**Interpon 700** is a series of epoxy/polyester hybrid powder coatings offering stable color and heat stability whilst maintaining an optimum combination of decorative and protective qualities.

**Interpon 700** powders are available in the full range of colours in gloss, reduced gloss, textured, aluminum 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>Gloss</b>	depends on products
<b>Specific gravity</b>	1.2-1.8 g/cm <sup>3</sup> (depending on color)
<b>Storage</b>	Dry cool conditions below 30 °C
<b>Shelf life</b>	6months (<30 °C), 12 months (<25 °C)
<b>Stoving schedule</b> (object temperature)	20 minutes at 160°C 15minutes at 180°C 10 minutes at 200°C Failure to observe the correct curing conditions may cause difference in colour, gloss and the deterioration of the coating properties.

### 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: 0.6mm degreased steel Chemical tests: 0.6mm Zn/Mn phoshated steel – chromated aluminum
<b>Film Thickness</b>	60-80 microns
<b>Stove Schedule</b>	10 minutes at 200°C (object temperature)

### Mechanical Properties

<b>Adhesion</b>	ASTM D3359 ISO 2409 GB/T 9286	5B Gt 0 Gt 0
<b>Pencil hardness (scratch)</b>	ASTM D3363 GB/T 6739	>=H >=H
<b>Cupping Test</b>	ISO 1520 GB/T 9753	Pass > 6mm Pass > 6mm
<b>Impact resistance (direct)</b>	ASTM D2794 GB/T 1732	>=30kg·cm 50kg·cm
<b>Flexibility</b>	ASTM D522 GB/T 1731	Pass 6mm Pass 4mm

### Chemical and Durability Properties

<b>Salt Spray</b>	ISO 9227	Pass-250 hours, creepage less than 2mm from scribe
<b>Humidity</b>	ASTM D1735	Pass-1000 hours, no blistering or loss of gloss
<b>Distilled Water Immersion</b>	ASTM D870	Pass-240 hours, no blistering or loss of gloss
<b>Exterior Durability</b>	Some chalking after 6-12 months continuous outdoor exposure but less than pure epoxies. Protective properties not impaired	
<b>Chemical Resistance</b>	Generally good resistance to most acids, alkalis and oils at normal temperatures	

### Pretreatment

Aluminum, steel or Zintec surfaces to be coated must be clean and free from grease. Iron phosphate and particularly lightweight zinc phosphate of ferrous metals improves corrosion resistance. Aluminum substrates may require a chromate conversion coating.

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## Application

Interpon 700 powders can be applied by manual or automatic electrostatic spray equipment, however for consistency of finish automatic equipment is preferred. Unused powder can be reclaimed using suitable equipment and recycled through the coating system.

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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) available on request from your local AkzoNobel sales office.

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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. Brand names mentioned in this data sheet are trademarks of or are licensed to AkzoNobel.

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