

# Product Data Sheet

## AkzoNobel Powder Coatings

### Interpon EC

<b>Product Description</b>	<p><b>Interpon EC</b> is a high-quality powder formulated to have excellent anti-graffiti properties with good aesthetic appearance. Interpon EC is suitable for outdoor applications and is available in a range of colors.</p> <p><b>Interpon EC</b> is also available as a transparent clear and can be custom matched to user's requirements.</p>	
<b>Powder Properties</b>	<b>Chemical type</b>	Polyurethane
	<b>Gloss (60°)</b>	50-100
	<b>Recommended Film Thickness (µm)</b>	60 - 90 µm
	<b>Density (g/cm<sup>3</sup>)</b>	1.20-1.90 g/cm <sup>3</sup> (Please consult CoA of product)
	<b>Application</b>	Electrostatic
	<b>Storage</b>	Dry cool conditions below 30°C (open boxes must be resealed)
	<b>Shelf life</b>	12 months
	<b>Curing schedule</b> (object temperature)	15-20 minutes at 190°C 10-15 minutes at 200°C 8-12 minutes at 210°C
<b>Test Conditions</b>	<p>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.</p>	
	<b>Substrate</b>	0.6mm degreased steel (Mechanical tests)
	<b>Pretreatment</b>	Zn/Mn Phosphate (Neutral Salt spray) or Chromated Aluminium (Acetic acid salt spray)
	<b>Film Thickness</b>	60 - 70 microns
	<b>Cure Schedule</b>	10 minutes at 210°C (object temperature)
<b>Mechanical Tests</b>	<b>Flexibility</b> (Cylindrical Mandrel)	ISO 1516 Pass 10 mm*
	<b>Adhesion</b> (2mm Crosshatch)	ISO 2409 Gt 0
	<b>Pull off test</b>	ISO 4624 >2.5 Nm
	<b>Erichsen Cupping</b>	ISO 1520 >3 mm*
	<b>Pencil Hardness</b>	ASTM D 3363 H-2H
	<b>Impact (d/r)</b>	ISO 6272 15 kg·cm*
	<b>Buchholz</b>	ISO 2815 >80
	(*) Depending on color can be some cracking but not delamination	

<b>Chemical &amp; Durability Tests</b>	<b>Acetic Acid Salt Spray</b> (500 hours)	ISO 9227	Creep <4mm from scribe
	<b>Neutral Salt Spray</b> (750 hours)	ISO 7253	Creep <4mm from scribe
	<b>Cyclic Humidity</b> (1000 hours)	ISO 6270-1	Pass - no blistering or loss and creep <1mm from scribe
	<b>Accelerated Weathering</b> (1000 hours)	ISO 11341	Gloss retention >50%. Color variation dependent on initial color
<b>Exterior Durability</b>		Suitable for outdoor exposure.	

**Anti-graffiti properties**

**Interpon EC** has been developed to satisfy the main specifications available in the railways, subways and urban furniture markets.

*For railway application contact AkzoNobel for individual technical datasheet for each used product.*

*It is not recommended to put the clearcoat on top of a fine texture finish.*

In general, the anti-graffiti properties depend upon many factors such as:

- Color and type of finishes of the coatings.
- Procedure used to evaluate the anti-graffiti property, particularly:
  - o Method of application of the graffiti.
  - o Method of removal of the graffiti.
  - o Type of graffiti.
  - o Conditioning (temperature and timing) of the coated sheets both after the application and after the removal of the graffiti
  - o Type of remover used
  - o Procedure to remove the graffiti

For this reason, please contact AkzoNobel for any clarifications.

**Application**

**Interpon EC** 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. Re-coat is not recommended.

**Pre-treatment**

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.

**Safety Precautions**

This product is intended for use only by professional applicators in industrial environments and should not be used without reference to the relevant health and safety data sheet which Akzo Nobel has provided to its customers.

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**Disclaimer**

**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 fulfil 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.

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<http://www.interpon.com/contact-us/>

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Interpon EC - Issue #10

Last Revision Date: 10.03.2020

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