

# Product Data Sheet

## AkzoNobel Powder Coatings

### Interpon 200

#### Product Description

Interpon 200 is a series of polyurethane-based powder coatings designed for the exterior environment offering excellent corrosion resistance and flexibility properties. Exceptionally smooth flow and high gloss make Interpon 200 powders ideal for applications where a high level of aesthetic finish is required.

#### Powder Properties

<b>Chemical type</b>	Polyurethane
<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 (open boxes must be resealed)
<b>Shelf life</b>	12 months
<b>Stoving schedule</b>	20 minutes at 190°C
(object temperature)	15 minutes at 200°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>	Gold Seal polished steel
<b>Pretreatment</b>	Gold Seal lightweight Zinc Phosphate
<b>Film Thickness</b>	50 microns
<b>Cure Schedule</b>	8 minutes at 210°C
(object temperature)	

#### Mechanical Tests

<b>Flexibility</b>	ISO 6860 (Conical Mandrel)	Pass 3 mm
<b>Adhesion</b>	ISO 2409 (2mm Crosshatch)	Gt 0
<b>Erichsen Cupping</b>	ISO 1520	Pass 7 mm
<b>Hardness</b>	ISO 1518 (2000g)	Pass - no penetration to substrate
<b>Impact</b>	ISO 6272	Pass 2.5 mm

#### Chemical and Durability Tests

<b>Salt Spray</b>	ISO 7253 (250 hours)	Pass - no corrosion creep more than 2mm from scribe
<b>Cyclic Humidity</b>	ISO 6270-1 (1000 hours)	Pass - no blistering or loss of gloss
<b>Distilled Water Immersion</b>	ISO 2812 (240 hours)	Pass - no blistering or loss of gloss
<b>Exterior Durability</b>	Excellent – non chalking, slight loss of gloss after 12 months continuous exposure but no film breakdown or reduction in protective properties	
<b>Colour Stability at elevated temperatures</b>	Excellent for continuous exposure up to 150°C	
<b>Chemical Resistance</b>	Generally excellent resistance to most acids, alkalis and oils at normal temperatures	

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### 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.

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### Application

Interpon 200 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 polyurethane powders are available in a wide range of colours and gloss levels to suit different applications. Some polyurethane powders release a small amount (1.5%) of  $\epsilon$ -caprolactam on stoving. Care should be taken to ensure that working concentrations of caprolactam are kept below 25mg/m<sup>3</sup>.

Interpon 200 powders are available in bright aluminium finishes which are susceptible to scratching and finger marking. Protection by use of a clear polyester top coat is recommended when the coated article is to be subjected to physical damage or environmental damage. The top coat should ideally be applied within 2 hours of the metallic coating and gloves should be worn when handling the metallic coated articles. For further details on the use of metallic powder coatings please contact AkzoNobel.

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### Safety Precautions

Please consult the Material Safety Datasheet (MSDS)

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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 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.

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