

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

Chemical type	Polyurethane
Particle Size	Suitable for electrostatic spray
Specific gravity	1.2-1.7 g/cm ³ depending on colour
Storage	Dry cool conditions below 30°C (open boxes must be resealed)
Shelf life	24 months
Stoving schedule (object temperature)	20 minutes at 190°C 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.

Substrate	Gold Seal polished steel
Pretreatment	Gold Seal lightweight Zinc Phosphate
Film Thickness	50 microns
Cure Schedule (object temperature)	8 minutes at 210°C

Mechanical Tests

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

Chemical and Durability Tests

Salt Spray	ISO 7253 (250 hours)	Pass - no corrosion creep more than 2mm from scribe
Cyclic Humidity	ISO 6270-1 (1000 hours)	Pass - no blistering or loss of gloss
Distilled Water Immersion	ISO 2812 (240 hours)	Pass - no blistering or loss of gloss
Exterior Durability	Excellent – non chalking, slight loss of gloss after 12 months continuous exposure but no film breakdown or reduction in protective properties	
Colour Stability at elevated temperatures	Excellent for continuous exposure up to 150°C	
Chemical Resistance	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.
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.
Additional Information	<p>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 ε-caprolactam on stoving. Care should be taken to ensure that working concentrations of caprolactam are kept below 25mg/m³.</p> <p>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.</p>
Safety Precautions	Please consult the Material Safety Datasheet (MSDS)
Disclaimer	<p>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.</p> <p>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.</p>
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