

Product Data Sheet

AkzoNobel Powder Coatings Interpon 610 AM

Product Description

Interpon 610 AM is a series of polyester based powder coatings, formulated without the use of TGIC, designed for the exterior environment, offering the benefits of Interpon 610 in combination with specific antimicrobial activity.

Interpon 610 AM powders are available in a wide range of colours in gloss, reduced gloss, textured and other special finishes or can be custom matched to the user's requirements.

Powder Properties

Chemical type	Polyester
Appearance	Depends on specific product
Particle Size	Suitable for electrostatic spray
Gloss	Depends on specific product
Specific gravity	1.2-1.8 g/cm ³ (depending on color)
Storage	Dry cool conditions below 30 °C
Shelf life	6months (<30 °C), 12 months (<25 °C)
Stoving schedule (object temperature)	15minutes at 180°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.

Substrate	Mechanical tests: 0.6mm degreased steel
Pretreatment	Chemical tests: 0.6mm Zn/Mn phoshated steel or chromated aluminum
Film Thickness	60-80 microns
Stoving Schedule	15 minutes at 180°C (object temperature)

Mechanical Tests

Flexibility	ASTM D522 GB/T 1731	Pass 5mm Pass 2mm
Adhesion	ASTM D3359 ISO 2409 GB/T 9286	5B Gt 0 Gt 0
Erichsen Cupping	ISO 1520 GB/T 9753	Pass > 5mm Pass > 5mm
Impact (direct)	ASTM D2794 GB/T 1732	>=50kg·cm 50kg·cm
Pencil hardness (scratch)	ASTM D3363 GB/T 6739	>=H >=H

Chemical and Durability Tests

Humidity	ASTM D1735	Pass-1000 hours, no blistering or loss of gloss
Distilled Water Immersion Exterior Durability	ASTM D870	Pass-240 hours, no blistering or loss of gloss Excellent – non chalking, slight loss of gloss after 12 months continuous

Interpon 610 AM

	Chemical Resistance	exposure but no film breakdown or reduction in protective properties Generally good resistance to most acids, alkalis and oils at ambient temperatures						
Corrosion Tests	Neutral Salt Spray ISO 9227	Pass-250 hours, creep less than 2mm from scribe						
Antimicrobial Activity	<p>Interpon 610 AM in conjunction with BioCote Ltd ® has been tested for antimicrobial efficacy versus the ISO22196: 2011 and exhibited a minimum of 95% and up to 99.99% reduction in bacterial population, classified as 'microbiological results satisfactory'. Testing by Biocote Ltd ® is carried out by an independent laboratory and has included the following bacteria:</p> <ul style="list-style-type: none"> • Listeria monocytogenes • Escheria coli 0157 • Salmonella enteritidis • Staphylococcus aureus (resistant strain) • Bacilus subtilis • Pseudomonas auruginosa • Salmonella typhimurium • Streptococcus faecalis • Legionella pneumophila <p>If customer have special request, please notice sales to modify those performance in advance. Further detail is available on request. For further details on powder properties and film performance of Interpon 610 please contact Akzo Nobel Local Sales Office.</p> <p>Interpon 610 HR (High Reactivity) powders are also available for use where a lower stoving temperature or shorter curing schedule is required. Stoving schedule (object temperature): 15 minutes at 160°C, 5 minutes at 180°C Shelf life: 6months (<30 °C) For further details on powder properties and film performance of Interpon 610 HR, please contact AkzoNobel.</p>							
Pre-treatment	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.							
Application	<p>Interpon 610 AM 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.</p> <table border="0"> <tr> <td>Fluidizing air pressure</td> <td>~0.7 bar</td> </tr> <tr> <td>Transport air pressure</td> <td>~0.7bar</td> </tr> <tr> <td>Recommended voltage</td> <td>40-90kV</td> </tr> </table>		Fluidizing air pressure	~0.7 bar	Transport air pressure	~0.7bar	Recommended voltage	40-90kV
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Transport air pressure	~0.7bar							
Recommended voltage	40-90kV							
Damage Repair	Surface preparation	Sanding + Air cleaning						

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Interpon 610 AM

ApplicationRecoat : Lower Voltage

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.

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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