

# Product Data Sheet

## AkzoNobel Powder Coatings

### Interpon 620 AM

**Product Description** **Interpon 620 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 600 in combination with specific antimicrobial activity.

**Interpon 620 AM** powders are available in a wide range of colors in gloss, satin, matt, metallic and textured effects and can be custom matched to the user's requirements.

<b>Powder Properties</b>	<b>Chemical type</b>	Polyester TGIC Free
	<b>Density (g/cm<sup>3</sup>)</b>	1.2-1.9 g/cm <sup>3</sup> depending on color and effect
	<b>Application</b>	Suitable for electrostatic spray
	<b>Storage</b>	Under dry, cool ( $\leq 30^{\circ}\text{C}$ ) conditions (open boxes must be resealed)
	<b>Shelf life</b>	24 months below $30^{\circ}\text{C}$ 12 months below $35^{\circ}\text{C}$
	<b>Curing schedule</b>	15 minutes at $190^{\circ}\text{C}$ 10 minutes at $200^{\circ}\text{C}$ 8 minutes at $210^{\circ}\text{C}$

<b>Test Conditions</b>	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 0.5mm steel
	<b>Pretreatment</b>	Gold Seal lightweight Zinc Phosphate
	<b>Film Thickness</b>	50 microns
	<b>Curing Schedule</b> (Object Temperature)	10 minutes at $200^{\circ}\text{C}$

<b>Mechanical Tests</b>	<b>Adhesion</b>	ISO 2409 (2mm crosshatch)	Gt 0
	<b>Flexibility</b>	ISO 1519	Pass 5mm
	<b>Erichsen Cupping</b>	ISO 1520	$\geq 7$ mm
	<b>Impact</b>	ISO 6272	> 50 kg·cm direct

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**Chemical and durability tests**

Whilst maintaining the general protective and anti-corrosive properties of powder coatings, aluminum and copper/bronze metallic finishes, when submitted to the listed tests, may rapidly show a loss of metallic aspect.

The results shown are based on tests which (unless otherwise indicated) have been carried out under laboratory conditions and are given for advice only, actual performance depends upon the circumstances under which the product is used.

<b>Salt Spray</b> (250 hours)	ISO 9227	no corrosion creep more than 3 mm from scribe
<b>Exterior Durability</b>	Suitable for outdoor exposure.	
<b>Chemical Resistance</b>	Generally excellent resistance to most acids, alkalis and oils at normal temperatures	

For application on Buildings we recommend using our *Interpon D* series.

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**Pretreatment**

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.

Detailed advice should be sought from the pre-treatment supplier.

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**Application**

**Interpon 620 AM** powder coatings can be applied by corona electrostatic equipment.

In all application processes the aspect obtained is subject to variation, depending on the method of application (type of gun, nozzle, etc) and the shape/type of component. We recommend that the actual application parameters are adapted and adjusted depending on the type of component and with each powder batch to give a finish in accordance with our color card.

The following procedure is given as a guideline when using these finishes. We recommend the use of flat jet spray nozzles. To ensure powder homogeneity, the complete content of the boxes should be emptied completely into the feed hopper. For manual application it is essential to ensure that an even film thickness is applied, and, in all instances, sinusoidal gun movements should be avoided.

All powders can show small color differences from batch to batch, this is normal and unavoidable. While AkzoNobel take every precaution to minimize visible differences, this cannot be guaranteed. Applicators and fabricators are advised to use a single batch for parts that will be assembled together. Differences are more likely with special effect powders.

Bonded products have better application properties than blended products (more stable) but attention should still be paid to line settings to avoid "marble effect" and changes in aspect after recycling. For more details it is suggested to read the "**Metallic Application Guideline**".

Different substrates (Aluminium, steel, galvanized steel, etc.), use of primer, and big changes in film thickness may give a different aspect. Products with different codes should not be mixed even if same color and gloss.

<b>Recycling</b>	Unused powder can be reclaimed using suitable equipment and recycled through the coating system, but a minimum of 70% virgin powder should be used.
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**Post Application**

Contact with Chemical Agents

Contact, even for a short duration with certain household products and chemicals, can cause irreversible changes in the gloss and appearance.

We recommend that a test is carried out on a non-visible area before using these types of products on this coating.

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**Additional Information**

**Interpon 620 AM** in conjunction with BioCote Ltd ® has been tested for antimicrobial efficacy in accordance with ISO 22196: 2011 and exhibited a minimum of 95% and up to 99.99% reduction in the population of *Escherichia coli* and Methicillin Resistant *Staphylococcus aureus* (MRSA).

Testing was carried out by an independent laboratory and is classified as 'microbiological results satisfactory'. BioCote® silver ion technology has been proven effective against the following bacteria in laboratory conditions:

Multi Drug Resistant Bacteria

- ESBL *Escherichia coli*
- CRE *Klebsiella pneumoniae*
- MRSA Methicillin Resistant *Staphylococcus aureus*
- VRE *Vancomycin Resistant Enterococcus*

Bacteria

- *Acinetobacter baumannii*
- *Bacillus subtilis*
- *Campylobacter* spp.
- *Clostridium difficile* (excluding spore form)
- *Escherichia coli* O157
- *Enterobacter aerogenes*
- *Enterococcus faecalis*
- *Legionella* spp.
- *Listeria monocytogenes*
- *Pseudomonas aeruginosa*
- *Salmonella* Enteritidis
- *Salmonella* Typhimurium
- *Shigella* spp.
- *Staphylococcus aureus*
- *Staphylococcus epidermidis*

**Interpon 620 AM** contains BioCote® silver phosphate glass antimicrobial technology to preserve the coating surface and prevent degradation caused by microbial growth once applied to the intended substrate.

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**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 620 AM - Issue #3

Last Revision Date: 18.05.2020

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