

# 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 colours in gloss, satin, matt, metallic and textured effects and can be custom matched to the user's requirements.

#### Powder Properties

<b>Chemical type</b>	Polyester – TGIC
<b>Particle Size</b>	Suitable for electrostatic spray
<b>Specific gravity</b>	1.2-1.8 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> (object temperature)	15 - 30 minutes at 190°C 10 - 20 minutes at 200°C 8 - 16 minutes at 210°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> (object temperature)	10 minutes at 200°C

#### 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	25 kgcm

#### 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>Chemical Resistance</b>	Generally excellent resistance to most acids, alkalis and oils at normal temperatures	
<b>Colour Stability at Elevated temperatures</b>	Excellent for continuous exposure up to 150°C.	

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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 620 AM 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 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 Escheria 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	Bacteria
ESBL Erischeria coli	Acinetobacter baumannii
CRE Klebsiella pneumonia	Bacillus subtilis
MRSA Methicillin Resistant Staphylococcus Aureus	Campylobacter coli
VRE Vancomycin Resistant Enterococcus	Campylobacter jejuni
	Clostridium difficile (excluding spore form)
	Escherichia coli O157
	Enterbacter aerogenes
	Enterococcus faecalis
	Legionella pneumophila
	Listeria monocytogenes
	Pseudomonas auruginosa
	Salmonella enteritidis
	Salmonella typhimurium
	Shigella spp.
	Staphylococcus aureus
	Staphylococcus epidermidis
	Streptococcus faecalis

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.

Interpon 620 AM (High Reactivity) powders are also available in selected grades for use where a lower oven temperature or shorter curing time is required.

<b>Stoving schedule</b>	15 - 30 minutes at 160°C
(object temperature)	8 - 16 minutes at 180°C
<b>Storage</b>	Dry cool conditions below 25°C
<b>Shelf life</b>	12 months

For further details on powder properties and film performance of Interpon 620 AM HR 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. 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.

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