

# **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 600 in combination with specific antimicrobial activity.

Interpon 610 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**

Chemical type	Polyester – TGIC Free	
Particle Size	Suitable for electrostatic spray	
Specific gravity	1.2-1.8 g/cm³ depending on colour	
Storage	Dry cool conditions below 25°C (open boxes must be resealed)	
Shelf life	12 months	
Stoving schedule	15 minutes at 190°C	
(object temperature)	10 minutes at 200°C	
	8 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.

Substrate	Gold Seal polished steel	
Pretreatment	Gold Seal lightweight Zinc Phosphate	
Film Thickness	50 microns	
Cure Schedule	10 minutes at 200°C	
(object temperature)		

#### **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	25 kgcm

#### 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	
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 610 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.

## Additional Information

Interpon 610 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 baumanii

CRE Klebsiella pneumonia

MRSA Methicillin Resistant Staphylococcus

Aureus

Bacilus subtilis

Campylobacter coli

Campylobacter jejuni

VRE Vancomycin Resistant Enterococcus 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 610 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 610 AM (High Reactivity) powders are also available in selected grades for use where a lower oven temperature or shorter curing time is required.

**Stoving schedule** 15 minutes at 160°C (object temperature) 8 minutes at 180°C

**Storage** Dry cool conditions below 25°C

Shelf life 12 months

For further details on powder properties and film performance of Interpon 610 AMHR please contact AkzoNobel.

#### **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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