

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
Particle Size	Suitable for electrostatic spray
Specific gravity	1.2-1.8 g/cm ³ depending on colour
Storage	Dry cool conditions below 25°C (open boxes must be resealed)
Shelf life	12 months
Stoving schedule (object temperature)	15 minutes at 190°C 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 (object temperature)	10 minutes at 200°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	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	

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 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 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)

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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