Product Data Sheet

AkzoNobel Powder Coatings
Interpon 810 AM

Product Description

Interpon 810 AM is a series of high durability powder coatings, formulated without TGIC, designed for exterior exposure. Tested against the most severe specifications Interpon 810 gives significantly improved gloss retention and resistance to colour change. **Interpon 810 AM** powders are available in a wide range of colours and gloss levels and can be custom matched to the user's requirements.

Interpon 810 AM is a high-quality powder coating designed to meet decorative and functional demands of your specifications. Additionally **Interpon 810 AM** uses antimicrobial technology to reduce the number of microbes such as bacteria and mold. Test results have proven reduction of bacteria and mold up to 99.9%.

Powder Properties

Chemical type	Polyester TGIC-free
Particle Size	Suitable for electrostatic spray
Specific gravity	1.2-1.7 g/cm³ depending on colour
Storage	Dry cool conditions below 25°C
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	Aluminium
Pretreatment	Chromate conversion
Film Thickness	60 microns
Stoving Schedule (object temperature)	10 minutes at 200°C

Mechanical Tests

Adhesion (2mm Crosshatch)	ISO2409	Gt0
Erichsen Cupping	ISO1520	Depends on shade
Hardness (4000gms)	ISO 1518	Pass - no penetration to substrate
Impact	BS6496	Depends on shade
Flexibility (Conical Mandrel)	ISO6860	Depends on shade

Chemical and Durability Tests

Salt Spray (1000 hours)	ISO7253	Pass - no corrosion creep >2mm from scribe
Acetic Acid Salt Spray (1000 hours)	ISO9227	Pass - no corrosion creep more than 2mm from scribe
Cyclic Humidity (1000 hours)	BS3900-F2	Pass - no blistering or loss of gloss
Distilled Water Immersion (240 hours)	BS3900-F7	Pass - no blistering or loss of gloss
Sulphur Dioxide (240 hours)	ISO3231	Pass - no blistering, loss of gloss or discoloration
Exterior Durability	Up to 5 years Florida exposure	Excellent colour and gloss retention performance (depends on shade)
Colour Stability at elevated temperatures	Excellent	
Chemical Resistance	Generally good resistance to most acids, alkalis and oils at normal temperatures.	

Pre-treatment

For maximum protection it is essential to pretreat components for exterior use prior to the application of Interpon 810. Aluminium components should receive a full multi-stage chromate conversion coating to clean and condition the substrate. Detailed advice should be sought from the pretreatment supplier. Galvanised steel also requires multi-stage pretreatment using either zinc phosphate or chromate conversion. Degassing of galvanised steel prior to powder application is considered mandatory - follow the procedural advice of the pretreatment supplier. **Interpon 810 AM** products may also be used on other substrates (eg. mild steel fabrications) for internal applications; nevertheless zinc phosphate pretreatment is regarded as essential.

Additional information

Interpon 810 AM 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'. 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 baumanii*
- *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 810 AM contains silver phosphate glass antimicrobial technology to preserve the coating surface and prevent degradation caused by microbial growth once applied to the intended substrate.

Application	Interpon 810 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.
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.** **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.** **Brand names mentioned in this data sheet are trademarks of or are licensed to AkzoNobel**

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