

Product Data Sheet

AkzoNobel Powder Coatings

Interpon 800 AM

Product Description

Interpon 800 AM is a series of high durability powder coatings designed for exterior exposure. Tested against the most severe specifications Interpon 800 gives significantly improved gloss retention and resistance to colour change.

Interpon 800 AM powders are available in a wide range of colours and gloss levels and can be custom matched to the user's requirements.

Interpon 800 AM is a high-quality powder coating designed to meet decorative and functional demands of your specifications. Additionally **Interpon 800 AM** uses BioCote® 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 |
| Particle Size | Suitable for electrostatic spray |
| Specific gravity | 1.2-1.7 g/cm ³ 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 | Gt 0 |
| 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 |

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Chemical and Durability Tests

| | | |
|--|---|---|
| Salt Spray (1000 hours) | ISO7253 | Pass - no corrosion creep >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 800. 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 800 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 800 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 | Bacteria |
|---|--|
| ESBL <i>Escherichia coli</i> | <ul style="list-style-type: none"> ● <i>Acinetobacter baumannii</i> ● <i>Bacillus subtilis</i> ● <i>Campylobacter</i> spp. ● <i>Clostridium difficile</i> (excluding spore form) ● <i>Escherichia coli</i> O157 ● <i>Enterobacter aerogenes</i> ● <i>Enterococcus faecalis</i> ● <i>Legionella</i> spp. ● <i>Listeria monocytogenes</i> ● <i>Pseudomonas aeruginosa</i> ● <i>Salmonella</i> Enteritidis ● <i>Salmonella</i> Typhimurium ● <i>Shigella</i> spp. ● <i>Staphylococcus aureus</i> ● <i>Staphylococcus epidermidis</i> |
| <ul style="list-style-type: none"> ● CRE <i>Klebsiella pneumoniae</i> ● MRSA Methicillin Resistant <i>Staphylococcus aureus</i> ● VRE <i>Vancomycin Resistant Enterococcus</i> | |

Interpon 800 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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Application

Interpon 800 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.

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