

# Product Data Sheet

## AkzoNobel Powder Coatings

### Interpon AM

#### Product Description

**Interpon AM** is a series of TGIC Free Polyester based powder coatings offering the benefits of powder coating in combination with specific antimicrobial activity.

**Interpon AM** is available in a wide range of colours and in full gloss, satin, and matt finishes.

#### Powder Properties\*

<b>Chemical type</b>	Polyester
<b>Particle size</b>	Suitable for electrostatic spray
<b>Specific gravity</b>	1.2 - 1.7 depending on colours
<b>Storage</b>	Dry cool conditions (below) 30°C
<b>Shelf Life</b>	18 months
<b>Sales code</b>	M-Series
<b>Stoving Schedule</b>	10 mins at 180°C or 5 mins at 200°C or 4 mins at 210°C (Object temperature)

#### Typical specifications

AS4506-2005

#### Film properties

Mechanical, chemical and durability tests carried out on zinc phosphated galvanised steel panels. All tests are performed on panels coated with 50 to 70 microns of a gloss finish powder stoved for 10 minutes at 200°C (metal temperature).  
Reduced gloss finishes may show lower values for mechanical performance.

#### Mechanical Tests\*

<b>Flexibility</b>	(Bend Test) AS1580 402.1	Pass 6mm
<b>Adhesion</b>	(2mm Crosshatch) AS1580 408.4	Classification 1 maximum
<b>Erichsen Cupping</b>	BS3900-E4	Pass > 3mm
<b>Pencil Hardness</b>	AS1580 405.1	F - minimum
<b>Reverse Impact</b>	AS3715 Section 2.5.8	Pass 2.5Nm

#### Microbial Tests

<b>Antimicrobial efficacy</b>	ISO 22196:2011	95-99.99% population reduction vs E.Coli and MRSA See additional information below
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#### Pre-treatment

For optimum coating performance the following pre-treatment is recommended prior to the application of **Interpon AM**. The pre-treatment should be used in accordance with the supplier's recommendations.

A. Aluminium	Multistage chrome chromate or chrome phosphate
B. Galvanised Steel	Multistage zinc phosphate or chromate
C. Steel	Multistage zinc or iron phosphate

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## Application

**Interpon AM** powder coatings can be applied by manual or automatic electrostatic spray equipment. Unused or over-sprayed powder coating can be reclaimed and recycled through the coating system.

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## Additional Information

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

AkzoNobel Pty Limited has a policy not to use lead or other heavy metal based pigments in our range of powder coatings.

As a result of this policy, the use of bright and deep yellow, orange, and red shades is not recommended for severe outdoor exposure where long term colour fastness is required.

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## Safety Precautions

This product is intended for use only by professional applicators in industrial environments and should not be used without reference to the relevant health and safety data sheet, which AkzoNobel has provided to its customer. If for any reason a copy of the relevant health and safety data sheet is not immediately available the user should contact AkzoNobel to obtain a copy before using the product. Minimum safety precautions in dealing with all powder coatings are as follows. All dusts are respiratory irritants. Therefore, inhalation of the dust or of the vapors resulting from the cure should be avoided. Take steps to prevent skin contact, but should contact occur, wash skin with soap and water. In case of eye contact flush immediately with clean water and seek medical advice. Dust clouds of any finely divided organic material can be ignited with an electric spark or open flame. Dust and powder should not be allowed to build up on surfaces or ledges. Dust collection equipment should be used which has provision for adequate explosion release. All equipment should be electrically earthed to prevent build up of static. Users are recommended to follow the guidelines laid down in AS3754:1990, "Safe Application of Powder Coatings by Electrostatic Spraying".

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AkzoNobel Coatings Ltd  
686 Rosebank Road  
Avondale Auckland 1007  
New Zealand  
Ph: 0800 150 527  
Fax: 0800 809 679  
Email: [salesnz@interpon.com](mailto:salesnz@interpon.com)  
Web: [www.interpon.co.nz](http://www.interpon.co.nz)

AkzoNobel Pty Limited  
51 McIntyre Road  
Sunshine Victoria 3020  
Australia  
Ph: 1800 630 516  
Fax: 1800 650 786  
Email: [salesoz@interpon.com](mailto:salesoz@interpon.com)  
Web: [www.interpon.com.au](http://www.interpon.com.au)

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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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\* Typical minimum specifications. Performance may vary slightly between individual products.  
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AkzoNobel Coatings Ltd  
686 Rosebank Road  
Avondale Auckland 1007  
New Zealand  
Ph: 0800 150 527  
Fax: 0800 809 679  
Email: [salesnz@interpon.com](mailto:salesnz@interpon.com)  
Web: [www.interpon.co.nz](http://www.interpon.co.nz)

AkzoNobel Pty Limited  
51 McIntyre Road  
Sunshine Victoria 3020  
Australia  
Ph: 1800 630 516  
Fax: 1800 650 786  
Email: [salesoz@interpon.com](mailto:salesoz@interpon.com)  
Web: [www.interpon.com.au](http://www.interpon.com.au)