

AkzoNobel

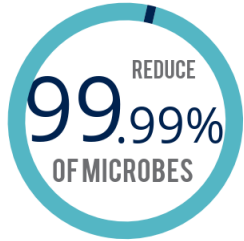
Interpon AM

Antimicrobial Powder Coatings

USA and Mexico

June 2020

What is Interpon AM?



Interpon AM reduces the presence of microbes on a protected product by up to 99.99%

86% in 15 minutes and
99.5% in just 2 hours.

Interpon AM is a high-quality powder coating designed to meet decorative and functional demands of your specifications.

Interpon AM uses BioCote® antimicrobial technology to keep Interpon AM coated surfaces fresher and cleaner for longer, protecting against odor causing and staining microbes such as bacteria and mold.

The BioCote® technology reduces the number of microbes such as bacteria and mold. Test results have proven reduction of bacteria and mold up to 99.9%

BioCote® technology does not protect users or others against disease causing bacteria, germs, viruses or other harmful organisms. This technology is not a substitute for good hygiene and/or cleaning practises.

How BioCote® silver ion technology works AkzoNobel

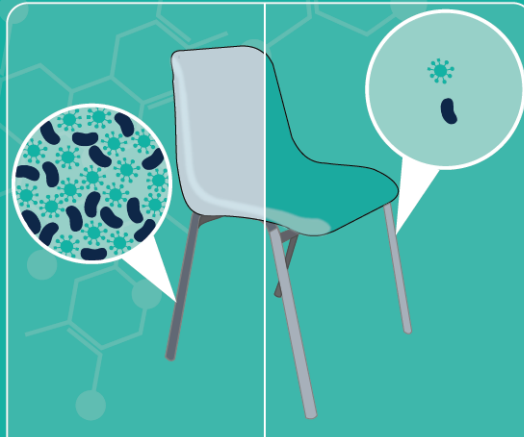
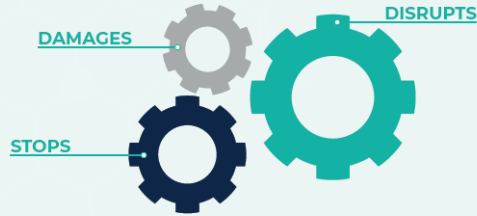
on protected surfaces



1 Microbes contaminate a BioCote® protected surface

2 Silver ions act against contaminating microbes in three ways:

- A** They promote the formation of reactive oxygen species which irreversibly damages microbial cells.
- B** They stop microbes reproduction by interfering with their DNA replication and regeneration.
- C** They are able to combine with microbial proteins: this will cause disruption in energy production and other essential functions that otherwise would keep microbes alive.



3 Microbes are reduced, leaving BioCote® treated products cleaner and more hygienic to use



4 Through a combination of actions, the BioCote® silver ions irreversibly damage microbial cells on the surface, causing an overall reduction in microbes.

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Interpon AM

Suits a wide range of applications

Medical/ Dental

- Laboratory areas
- Walls and ceilings
- Radiators
- Hospital beds
- Medical equipment (X-ray machines)

Food and Catering

- Food preparation areas
- Appliances

Self Service Technologies

- Bank ATMs
- Ticketing machines

Telecommunication

- Computing
- Telephones
- Computers

Locker Rooms / Toilets

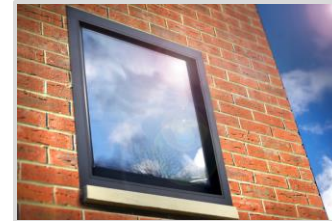
- Sports Centers
- Factory changing areas
- Hand driers
- Taps and shower fittings
- Door handles

Public Transport

- Hand Rails
- Door handles
- Seats

Construction parts

- Ceiling tiles
- Windows frames and facade
- Metal office partitions
- Railings
- Metal doors and elevator doors



AkzoNobel and BioCote® working together

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Proven Antimicrobial Protection

- ↗ We have partnership with BioCote® to ensure that our Interpon AM products perform to the very highest antimicrobial standards and complies with biocidal legislation around the world*.
- ↗ When you buy Interpon AM powder coatings you can also benefit from a personal antimicrobial support service by contacting our partner BioCote®.

*Legislation related to the use of products treated with biocidal agents is very complex and allow able marketing claims about product performance vary greatly from country to country - fines for not adhering to local rules and regulations can be very severe.

BioCote® supports AkzoNobel and potentially its customers

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BioCote® support service includes:

- ↗ Validation and ongoing antimicrobial performance quality
- ↗ International product registration
- ↗ Use of the BioCote® brand - a sign of antimicrobial quality
- ↗ Controlled testing
- ↗ Global regulatory support
- ↗ Preparation of marketing literature and sales support before product launch
Access to BioCote's microbiologist team

Interpon AM – Efficacy testing



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CERTIFICATE OF ANTIBACTERIAL ANALYSIS

CERTIFICATE NO.	BC082/2020	DATE RECEIVED	06.07.2020
CUSTOMER	AKZONOBEL	DATE ANALYSED	14.07.2020
CUSTOMER REF.	200/500-502	DATE REPORTED	21.07.2020
MANUFACTURER	USA		
SAMPLE COMMENT	LWR POW_326513-1B and POW_326513-1C		
UNITS OF RESULTS	Colony Forming Units	NO. OF PAGES	1 of 1

METHOD OF ANALYSIS: DETERMINATION OF ANTIBACTERIAL ACTIVITY USING ISO 22196:2011

SAMPLE	TEST ORGANISM	CONTACT TIME		REDUCTION (INITIAL)	
		0 HRS	24 HRS	Log ₁₀	%
LWR POW_326513-1B. JA008QF	MRSA	5.87E+04	≤100	≥2.77	≥99.83%
LWR POW_326513-1B. JA008QF	<i>E. coli</i>	6.93E+04	≤100	≥2.84	≥99.86%
LWR POW_326513-1C. JA008QF EXTRUDED IN FORMULA	MRSA	5.87E+04	≤100	≥2.77	≥99.83%
LWR POW_326513-1C. JA008QF EXTRUDED IN FORMULA	<i>E. coli</i>	6.93E+04	≤100	≥2.84	≥99.86%

Comment: The samples LWR POW_326513-1B. JA008QF and LWR POW_326513-1C. JA008QF EXTRUDED IN FORMULA have achieved the BioCote minimum antibacterial performance requirement of 95% "Reduction against the initial for *E. coli* and MRSA" according to ISO 22196:2011 analysis.

Our Interpon AM in conjunction with BioCote Ltd are subject to antimicrobial efficacy test 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 is carried out by an independent laboratory and is classified as '*microbiological results satisfactory*'. BioCote® silver ion technology has been proven effective against the bacteria (listed in product TDS) in laboratory conditions

Available Interpon AM product offering

Industrial use

Product series	Description
Interpon 100 AM	Epoxy
Interpon 200 AM	Polyurethane
Interpon 600 AM / 610 AM	Industrial Polyester
Interpon 300 AM / 310 AM	Industrial Polyester
Interpon 700 AM	Epoxy-Polyester
Interpon 800 AM / 810 AM	Advanced durable Polyester
Interpon TP AM	Thermoplastics

Architectural use

Product series	Description
Interpon D1000 Gloss/Satin/Matt/Texture AM	Architecture Polyester Qualicoat Class 1
Interpon D2000 Gloss/Satin/Matt/Texture AM	Architecture Polyester Qualicoat Class 2

Quality controlled antimicrobial technology

When you use Interpon AM you can rest assured that the coating will:

- Provide the required decorative effect together with the chemical, physical and performance characteristics expected from the high-quality Interpon powder coatings.
- Protect against the negative effects of odor and stain causing microbes such as bacteria and mold.
- Be regularly validated and independently quality control tested to ISO 22196:2011
- Continue to provide protection for the expected life of the product (the BioCote® technology will not wear off, wash out or leach from the coating)
- Provide 24 hour protection*, 7 days a week



* BioCote® technology does not protect users or others against disease causing microbes. This technology is not a substitute for good hygiene and/or cleaning practices

Starting to buy Interpon AM

Today:

1. We introduced to you our Interpon AM offer

If you want to progress with Interpon AM

2. You need to sign our Indemnity Agreement
3. Once signed a product development request will be passed to our lab
4. Our partnership with BioCote® ensures efficacy testing is in place for the ordered Interpon AM product
5. Produce and supply Interpon AM powder
6. We will pass your details to BioCote® who will give you basic antimicrobial advice.

www.biocote.com/InterponAM

Indemnity agreement

Because of any potential legal issues we ask all Interpon AM customers to sign and indemnity letter before we can supply Interpon AM powder coatings.

Key points in the agreement:

- ↯ We warrant that the biocidal active substance is registered under the US EPA FIFRA. The product has not, however, been registered.
- ↯ We warrant that Interpon AM will be tested by a third-party laboratory and test results will be conveyed directly to you with the level of antimicrobial efficacy.
- ↯ We warrant that we will incorporate the BioCote® additive
- ↯ We advise you to examine into any pesticide-treated product not registered by EPA must not make public health claims
- ↯ We do not warrant that every batch of Interpon AM will be tested before supply.
- ↯ We advise you that you are responsible for regulatory compliance of your Interpon AM coated” end-product.
- ↯ We advise you to seek support about registration and marketing claims language.
- ↯ We will pass on your details to BioCote®.
- ↯ You indemnify AkzoNobel against any claims resulting from your breach of regulations

Thank you!