ANTIMICROBIAL PROTECTION FOR PAINTS & COATINGS

Redefine your coating products with effective antimicrobial treatments from Microban®

Who is Microban International?

Founded in 1984 by three biomedical engineers, Microban International, Ltd. is the global leader in built-in antimicrobial solutions.

CONSUMER TRUSTMARK

Utilised by **300+ companies** worldwide

Manufactured into more than **1000 products**

Acknowledged as an industry Trustmark, Microban technologies are utilised by 300+ brands and manufacturers in over 30 countries worldwide.

What is antimicrobial technology?

Antimicrobial technology is a solution that inhibits the growth of microorganisms such as bacteria, mould and mildew.

Built-in during the manufacturing process, the technology becomes an intrinsic feature of any product. It works by disrupting the vital life processes and biological functions of contaminating microbes, meaning they cannot grow or reproduce on a treated surface and subsequently die.

Unlike standard disinfectants, which provide a limited residual activity once the treated surface dries, integrated antimicrobial technology works to continuously minimise the presence of microbes throughout the entire life cycle of a treated product.

Antimicrobial technology can be formulated into additives to suit a variety of processing requirements.

What effects can microbes have on painted surfaces?

Painted surfaces found in homes, healthcare facilities, industrial settings and public places are frequently subjected to moisture, humidity and high-frequency touch. Such conditions can accelerate microbial growth, with bacteria doubling in number every 20 minutes on an untreated surface. In many circumstances, once microbes have begun to proliferate on a painted surface, demanding cleaning routines are required to keep growth under control.

Staining

Microbial growth can cause a painted surface to look unsightly

Bad odour

Microbial growth can result in the emission of foul-smelling odours

Premature degradation

Microbes can negatively impact the durability of a painted surface

Cross-contamination

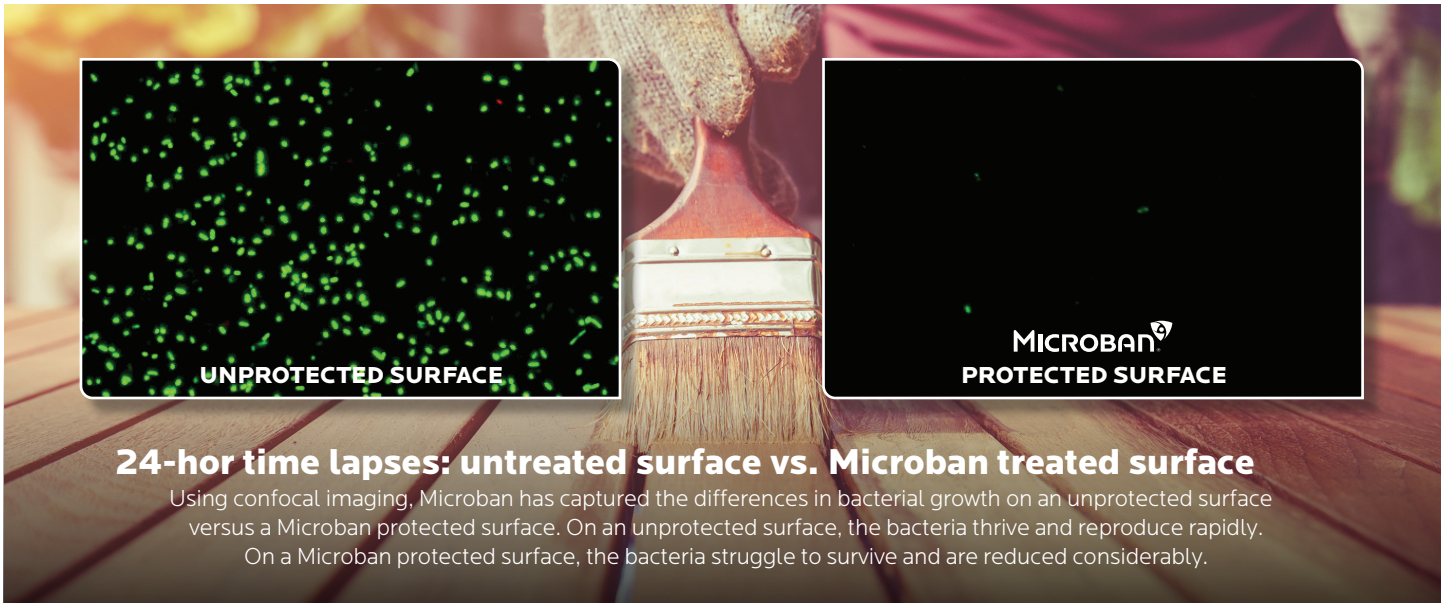
Microbes can survive on a painted surface for several weeks, causing it to become a vector of transmission for potentially harmful bacteria

Unrealistic cleaning

Controlling microbial growth on a painted surface can require demanding cleaning routines that may compromise the surface and/or interrupt operations.

PROTECTION THAT LIVES ON MICROBAN®

Microban (Europe) Ltd.
Pera Business Park | Nottingham Road | Melton Mowbray | LE13 0PB | United Kingdom
T: +44 1543 464070 **www.microban.com**



24-hor time lapses: untreated surface vs. Microban treated surface

Using confocal imaging, Microban has captured the differences in bacterial growth on an unprotected surface versus a Microban protected surface. On an unprotected surface, the bacteria thrive and reproduce rapidly. On a Microban protected surface, the bacteria struggle to survive and are reduced considerably.

The Solution:
MICROBAN ANTIMICROBIAL PROTECTION

Paints & coatings containing Microban technology are actively resistant to the growth of bacteria, mould and mildew. Our customised chemistries are incorporated into the coating at the point of manufacture and provide ongoing protection against a broad spectrum of harmful microbes by up to 99.99%.

Treatable coatings

The powerful effects of Microban antimicrobial protection can be integrated into a range of paints & coatings including powder, solvent, liquid and water-based paints.

Common applications

Microban technologies are implemented by decorative, industrial and speciality paint manufacturers across the globe, for a variety of different applications. Consumer, commercial, healthcare and building products all benefit from the added layer of protection provided by antimicrobial coatings. Examples include walls, flooring, kitchen surfaces, commercial refrigerators, hospital beds, light switches and more.

How are Microban technologies added to coatings?

Microban technologies are embedded within the coating, providing continuous protection against microbes without affecting gloss or matte surfaces, colour or durability. Delivery approaches, such as the use of granular, powdered and liquid masterbatches, can also be fine-tuned to allow seamless incorporation into your manufacturing process.

The benefits

- ***Permanent, cost-effective solution*** that remains active for your coating product's expected lifetime
- Helps minimise the ***risk of cross-contamination,*** making a treated coating perfect for use on surfaces in ***hygiene-critical environments***
- Imbues a coating with ***resistance to the growth of unsightly mould and mildew,*** making it ideal for use in moist or humid spaces
- Contains ***non-leaching*** technologies that are notified with the EU Biocidal Products Regulation ***(BPR)*** and registered with the US Environmental Protection Agency ***(EPA)***
- Specific technologies are listed on ***EFSA*** (European Food Safety Authority) and are also registered with the ***EPA*** as suitable for use in ***food-contact applications***
- Helps to ***prolong the shelf-life of a paint*** by reducing the presence of degrading microbes

Redefine your coating products with Microban

Microban has over 25 approved antimicrobial technologies that can be applied to thermoplastic, thermosetting and other cross-linked or cured paints & coatings.

For more information on how we can protect, extend and elevate your coating products, contact a member of our experienced team today: www.microban.com/contact.

PROTECTION THAT LIVES ON MICROBAN®

Microban (Europe) Ltd.
Pera Business Park | Nottingham Road | Melton Mowbray | LE13 0PB | United Kingdom
T: +44 1543 464070 **www.microban.com**