



GROUNDBREAKING ANTIMICROBIAL TECHNOLOGIES FOR PLASTICS

Solutions for Automotive, Electronics, Packaging, Building Materials, Healthcare and More

Who Is Microban International?

Microban International is home to the world's leading antimicrobial ingredient brands - Microban® and Ultra-Fresh®. Acknowledged as industry Trustmarks, our brands and technologies are utilised by more than 300 manufacturers in over 50 countries worldwide.



Utilised by
300+
companies worldwide

Proudly displayed
on more than
1,000 products

Samsøite



GE APPLIANCES

poly

Rubbermaid

Did you know?

72% of consumers admit they now worry about exposure to bacteria, while 85% are actively making choices to protect the environment.* That's why manufacturers worldwide are looking to create smarter plastic products that address both cleanliness and sustainability concerns.

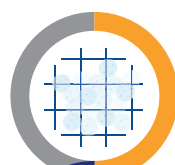
What is antimicrobial technology?

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

Unlike standard disinfectants, which provide a limited residual activity once the treated surface dries, built-in antimicrobial technology works to continuously minimise the presence of microbes throughout the entire life cycle of a treated product. The technology can be formulated into a powder, liquid or masterbatch pellet to suit various processing requirements.

The problem: microbial growth on plastic products

Plastic products used in homes, healthcare facilities, commercial kitchens and other environments are often prone to microbial growth. Use by multiple people, environmental conditions, and cleaning lapses all contribute to contamination. High levels of plasticisers, a carbon-rich food source for bacteria, can also accelerate microbial attacks.



Staining & bad odours

Microbial growth can cause plastic products to look unsightly and/or emit foul-smelling odours.



Premature degradation

Microbes can negatively impact the durability of plastic products and may ultimately contribute to increased plastic pollution.



Cross-contamination

Microbes can survive on plastic products for several weeks, leading to an increased risk of cross-contamination.



Unrealistic cleaning

In many cases, controlling microbial growth on plastic products requires demanding cleaning routines that may compromise their integrity.

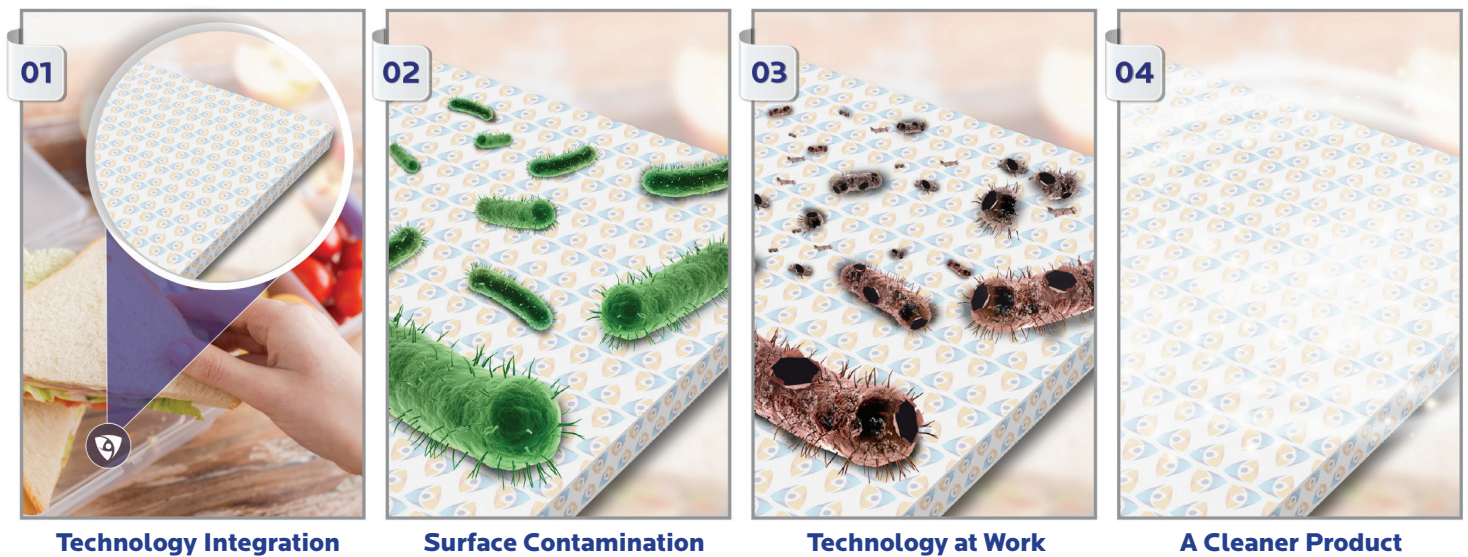
The solution: antimicrobial product protection

Microban antimicrobial technologies combat the uncontrolled growth of microbes by up to 99.99%. Integrated at the stage of manufacture or applied as a post-treatment coating, our unique compounds are carefully customised for each product's production process, specifications and end-use, ensuring seamless integration and high levels of efficacy.

Multi-sponsor Surveys (2020)

How does Microban technology work

Microban antimicrobial technology works at a cellular level to continually disrupt the growth and reproduction of microorganisms. It operates a multi-modal attack, damaging the protein, cell membrane, DNA and internal systems of a microbe. Once infused into a product, Microban technology will remain active for its expected lifetime.



Key applications


Microban antimicrobial technology can be integrated into almost any polymer material, including ABS, PP, PS, PC, PVC, and LDPE.



NEW

TECHNOLOGY INNOVATIONS

Microban is proud to launch a new line of non-heavy metal antimicrobials for creating cleaner, more sustainable plastic products.



ASCERA: a range of non-heavy metal antimicrobials for use in olefinic polymers and solvent-based coatings.

.....



LAPISSHIELD: a range of non-heavy metal antimicrobials for water-based coatings that are applied to plastic, wood, metal and much more. Globally registered.

Leading turnkey support services

As a true innovation partner, Microban works with you throughout the entire product development process. Our team of polymer engineers create customised antimicrobial formulations that are compatible with your material and manufacturing process. Whether your product is blow moulded, injection moulded, rotational moulded, or film and profile extruded, we will have a solution that fits.

Beyond unrivalled technical support, Microban also offers sales training, marketing claims guidance and a host of other services to help you seamlessly deploy your treated product range.

BENEFITS OF ANTIMICROBIAL TECHNOLOGY



Your journey to a better product starts here

Microban technologies can be found in thousands of products made by hundreds of leading manufacturers around the world. If you're interested in learning how our solutions can become an integral part of your plastic products, contact us today.

