REDEFINING PLASTICS WITH BUILT-IN ANTIMICROBIAL TECHNOLOGY
Solutions for Automotive, Electronics, Packaging, Building Materials, Healthcare and More

Who Is Microban International?
Microban International is the global leader in built-in antimicrobial and odour control solutions. Acknowledged as an industry Trustmark, Microban® technologies are utilised by multiple brands and manufacturers worldwide.

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 disinfectants, which provide a limited residual activity once the surface dries, integrated 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.
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.

Better Collaboration, Better Protection
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.

Available Antimicrobial Technologies
Microban® has the world’s largest portfolio of built-in antimicrobial technologies. Renowned formulations include SilverShield® and ZPTech®.

SilverShield®: A range of silver-based antibacterial technologies for plastics. These formulations are proven effective against bacteria and some virus strains.

ZPTech®: A range of zinc-based antimicrobial technologies for plastics. These formulations are proven effective against bacteria, mould, mildew, and some virus strains.

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

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BENEFITS OF ANTIMICROBIAL TECHNOLOGY
- Keeps plastic products cleaner and fresher
- Improves product durability and helps reduce plastic pollution
- Facilitates easier cleaning
- EPA Long history of safe and effective use
- Suitable for integration into a range of polymers
- Provides added peace of mind

Discover More
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.