

ASCERA TECHNOLOGY FOR POLYMERS

NEXT-GENERATION ANTIMICROBIAL TECHNOLOGY
COMES FROM CHEMISTRY INSPIRED BY NATURE

Who is Microban International?

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



Utilised by
800+
companies worldwide

Proudly displayed
on more than
1,000 products

Globally acknowledged as a consumer Trustmark, the Microban® brand is utilised by 800+ companies worldwide and is proudly displayed on thousands of products in over 30 countries.

What is antimicrobial technology?

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

Microban has a portfolio of over 25 approved organic and inorganic antimicrobial technologies that can be engineered into products and surfaces. These technologies work to deliver 24/7 product protection against microbial growth, without impacting product performance or aesthetics.

Our mission

Microban recognises that the long-term health of our business is directly connected to the health of the planet and local communities. At the core of our technological offerings, Microban is a sustainability-solutions focused company. We have been at the forefront of the industry in offering technologies that contribute to decreased landfill loading and reduced energy and water consumption. We are also committed to the continued development of technologies that have a nontoxic profile and are environmentally friendly. In short, we strive to protect today so that we can all live on™ tomorrow.

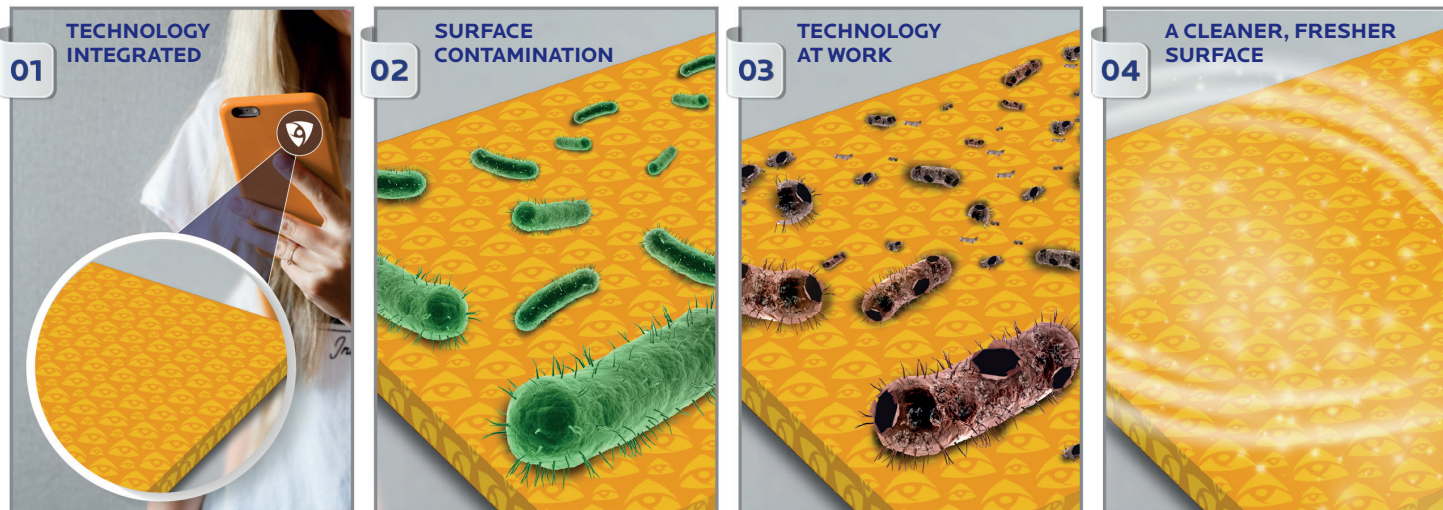
What is Ascera™?

Ascera is a patented antimicrobial product line from Microban. The technology represents our corporate innovation focus on developing environmentally friendly technologies that eliminate metal-based chemistries from the formulation and reduce negative impacts on the planet. With an active ingredient inspired by nature*, Ascera serves as a sustainable and effective antimicrobial solution. The technology also has exceptional chemical and UV stability. Microban has developed specific technical products that will enable Ascera to be easily incorporated into a range of molded polymers, textiles and coatings.

Industry-groundbreaking antimicrobial technology for polymers

As the global leader in antimicrobial technology, Microban has innovated a solution to utilise Ascera in polymer applications. Provided in pellet form and incorporated during the manufacturing process, Ascera is embedded into and dispersed throughout the polymer, making it a durable antimicrobial chemistry. Testing has shown that Ascera is effective in inhibiting bacterial growth by up to 99.99%. Polymers treated with Ascera won't harbor bacteria that cause stains, odours and product degradation, further extending the useful life of the products.

**INHIBITS THE
GROWTH OF
BACTERIA UP TO
99.99%**



How does Ascera work?

Ascera interferes with the cell membrane permeability of microorganisms and hinders the cell's nutrition absorption and conversion processes, inhibiting their growth and survival. Once infused into a product, Ascera will remain active for its expected lifetime. Microban technical team will provide engineering and consulting services to help brands and manufacturers incorporate antimicrobial technology into their final products.

Technical data – at a glance

Antimicrobial efficacy	Antibacterial
Food contact	Speak to your representative
Test methods	ISO 22196: 2011 (AB)

Key applications

Ascera antimicrobial technology can be integrated into most polymer materials, including PP, PE, TPE, TPR, PVC, TPU, EVA, and EPDM.

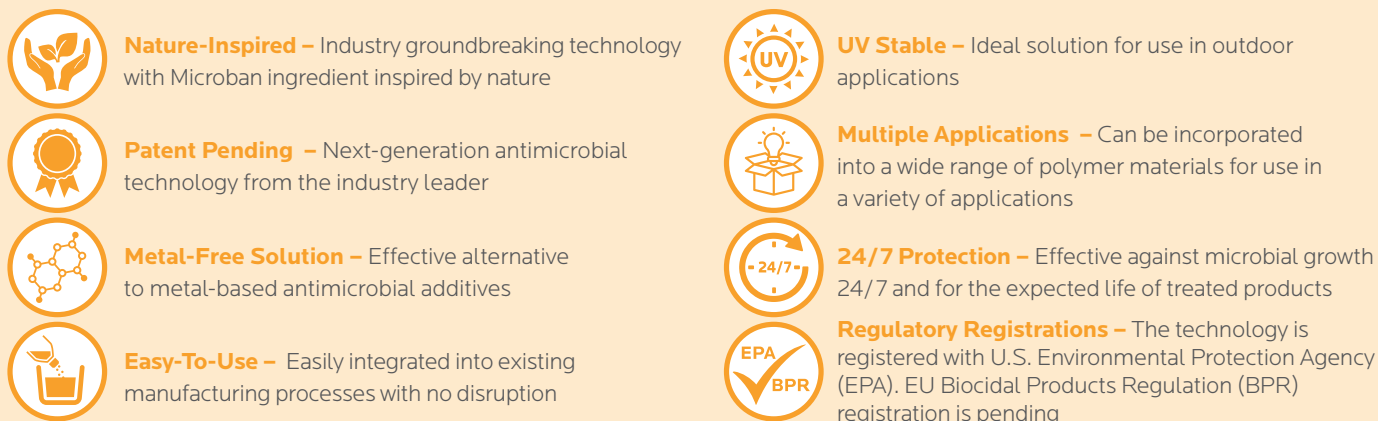


24-hour time lapse: untreated surface vs. treated surface

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



The Benefits



Get in touch - For more information on our turnkey solutions for polymers, contact a member of the Microban team today.

*The Microban technology used in this product is similar to acids found in nature and is used in multiple consumer product applications. Ascera is available for sale in the U.S. and Asia only.