



ASCERA TECHNOLOGY FOR COATINGS

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.



Utilized by
800+
companies worldwide

Proudly displayed
on more than
1,000 products

Globally acknowledged as a consumer Trustmark, the Microban® brand is utilized 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

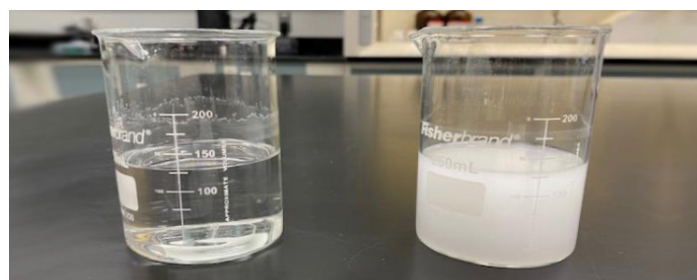
Microban recognizes that the long-term health of our business is directly connected to the health of the planet and local communities. That's why we have been at the forefront of the industry in offering technologies that contribute to sustainability. Our solutions actively extend the useful life of products to help decrease landfill loading and reduce energy and water consumption. We are also committed to the continued development of technologies that have a non-toxic profile and are environmentally friendly. In short, we strive to protect today so that we can all live on™ tomorrow.

What is Ascera™?

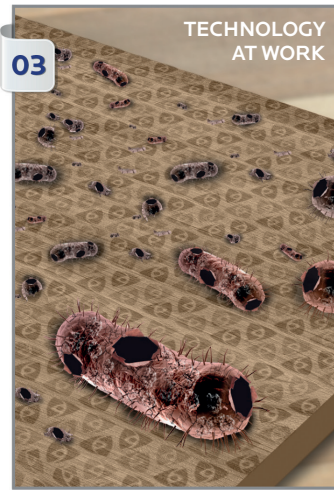
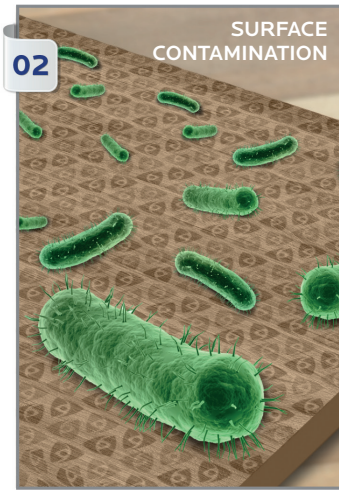
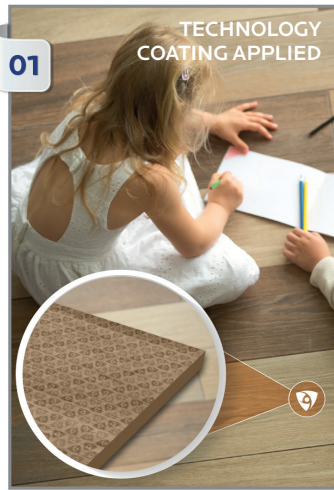
Ascera is a new, patented antimicrobial product line from Microban. The technology represents our corporate innovation focus on developing environmentally friendly solutions that eliminate metal-based chemistries from the formulation and reduce negative impacts on the planet. With an active ingredient 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.

The innovative solvent-based coatings technology

As the global leader in the antimicrobial industry, Microban has innovated a solution to utilize Ascera in solvent-based coatings. This technology is designed to seamlessly integrate antimicrobial functionality into solvent-based coating formulations. It provides clear advantages over traditional metal-based antimicrobial systems consisting of insoluble powders that are heavy and difficult to keep suspended. Ascera is a step forward in providing robust turnkey antimicrobial solutions for solvent-based coatings manufacturers.



ASCERA	TRADITIONAL ANTIMICROBIALS
Clear and UV stable	May cause yellowing or other negative visual defects
Easy to incorporate, mix, and disperse	Difficult to incorporate, mix and disperse
Stability after incorporation	May phase separate or settle due to gravity



How does Ascera work?

Ascera utilizes an active inspired by nature to help inhibit bacterial growth by up to 99.99%. Standard coating processes (i.e. spraying, roll-to-roll, dip, etc.) can be used to apply coatings using the technology. Ascera interferes with the cell membrane permeability of microorganisms and hinders the cell's nutrition absorption and conversion processes, inhibiting their growth and survival. 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
Appearance	White flake powder
Test methods	ISO 22196: 2011 (AB)

Examples of Ascera coating applications - solvent-based coatings and paints for application on:



Polymers



Wood



Metal



Glass ...and more

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



Nature-inspired – Industry groundbreaking technology with Microban ingredient inspired by nature



Patented – Next-generation antimicrobial technology from the industry leader



Metal-free solution – Effective alternative to metal-based antimicrobial additives



Easy-to-use – Optimized processing and manufacturing requirements allow for easy incorporation into a variety of solvent-based coatings systems



UV stable – Ideal solution for use in outdoor solvent-based coating applications



Improved quality – Improved stability with minimal impact on optical properties of solvent-based coatings, making it ideal for transparent and thin coatings



24/7 protection – Effective against microbial growth 24/7 and for the expected life of coating products



Regulatory registrations – The technology is registered with the U.S. Environmental Protection Agency (EPA). EU Biocidal Products Regulation (BPR) registration is pending

Get in touch - For more information on our turnkey solutions for coatings, 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.