

PROTECT AGAINST THE INVISIBLE

A daltile







WHAT IS MICROBAN® TECHNOLOGY

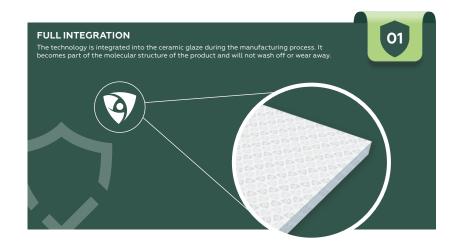
Antimicrobial product protection has revolutionized product cleanliness, becoming a key aid in the fight against product-damaging microbes.

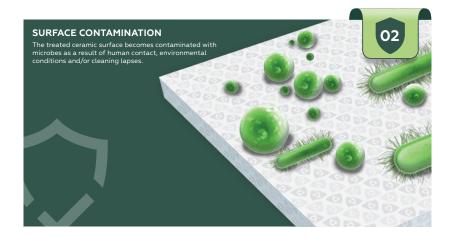


From walls and worktops in kitchens to flooring and sinks in bathrooms, frequently utilized tile surfaces are often subjected to moist and humid conditions. This makes them prone to the growth of degrading microbes such as bacteria, mold, and mildew.

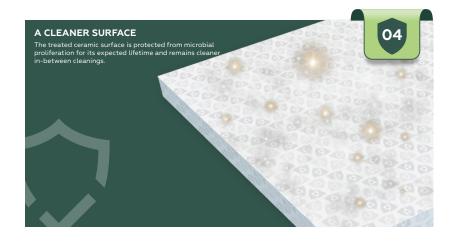
Scrubbing with disinfectant cleaners is an essential way to temporarily reduce the presence of microbes on ceramic surfaces. However, research has shown that cleaning products have a limited residual effect, meaning bacteria begin to double in number every twenty minutes soon after a surface has been cleaned.

Unlike disinfectant sprays, built-in antimicrobial ceramic technologies will actively control microbial growth on ceramic surfaces and work to extend the effectiveness of regular cleaning routines by reducing the background bioburden.









HOW DOES IT WORK?

MICROBAN® ANTIMICROBIAL PRODUCT
PROTECTION WORKS AT A CELLULAR LEVEL
TO CONTINUALLY DISRUPT THE GROWTH
AND REPRODUCTION OF MICROORGANISMS
THAT CONTAMINATE A TREATED SURFACE.
THE TECHNOLOGY OPERATES A MULTI-MODAL
ATTACK BY DAMAGING THE PROTEIN, CELL
MEMBRANE, DNA, AND INTERNAL SYSTEMS OF
A MICROBE, PREVENTING IT FROM BEING ABLE
TO TAKE IN NUTRIENTS OR REPRODUCE.

Once infused into a product, antimicrobial technology will start to work as soon as a microorganism comes into contact with the treated surface.

- Protein Damage: antimicrobial agents attack the proteins of a microbe, causing failure of essential functions
- Cell Disruption: antimicrobial agents damage the membrane of a microbe, leading to the loss of critical nutrients
- Oxidative Damage: antimicrobial agents cause increased oxygen levels, leading to significant damage to the internal systems of a microbe
- DNA Disruption: antimicrobial agents interfere with the genetics of a microbe, ultimately preventing its growth and reproduction

By creating an inhospitable environment for microorganisms like bacteria, mold, and mildew, built-in antimicrobials protect products from staining, bad odors, and premature degradation.

WHAT WOULD YOU DO MORE OF IF YOU COULD WORRY LESS?

We are increasingly aware of the global attention and demand for products with surface protection and enhancement opportunities. We have to make choices on a day-to-day basis, and pay special attention to those having to do with the spaces in which we live and work on. This is why Daltile® has developed a distinct product line of high-performance porcelain antimicrobial floor and wall tiles. Designed to promote cleaner spaces empowered with Microban® antimicrobial product protection for your floor, wall and mosaic tile and to provide a lifetime of cleanliness that does not wash off or wear away.



BACTERIA ARE EVERYWHERE.

DID YOU KNOW, THERE ARE MORE BACTERIA ON ONE HAND THAN PEOPLE ON PLANET EARTH?

KNOWING THIS, HOW CAN WE LIVE AND WORK ON OUR SURFACES WITH PEACE OF MIND? PRODUCT CLEANING SOLUTIONS ARE ONLY TEMPORARY.

The solution has arrived in **DEFEND™** product technology by Daltile®. Besides having an assortment of beautiful and trendy visuals most popular today with remarkable durability, these antimicrobial surfaces have been created in partnership with Microban® International, the world-leading antimicrobial brand in the sector: creating a powerful antimicrobial shield built into the product continuously fighting the growth of up to 99% of bacteria on the surface. The result is a surface which is consistently protected, 24 hours a day, 7 days a week.

Thanks to its global approach, Microban® technology is known and appreciated by more than 300 brands worldwide and used in more than 1000 products, not only in construction but also in commercial, consumer goods, education, healthcare, transportation and food services.





THE BENEFITS:



ACTIVE 24/7

Microban® technology is a cost-effective solution that remains active for your ceramic product's expected lifetime.*
*So long as the glaze remains intact.



EFFECTIVE AGAINST BACTERIA

Microban[®] Technology has been proven effective against a broad spectrum of bacteria.



ENHANCES CLEANLINESS & DURABILITY

Product cleanliness is visibly improved without affecting the appearance, functions or durability of your product.



EXTENDED PRODUCT LIFETIME

Microban® antimicrobial ceramics technologies are effective against the growth of stain-and odor-causing bacteria. This helps to create inherently cleaner and more durable ceramic products.



SAFE TO USE

Microban® antimicrobial ceramic products contain non-leaching technologies that are notified with the EU Biocidal Products Regulation (BPR) and registered with the US Environmental Protection Agency (EPA).



FOOD CONTACT APPROVED

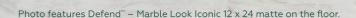
Select Microban® antimicrobial ceramic technologies are approved for use in direct food-contact applications.

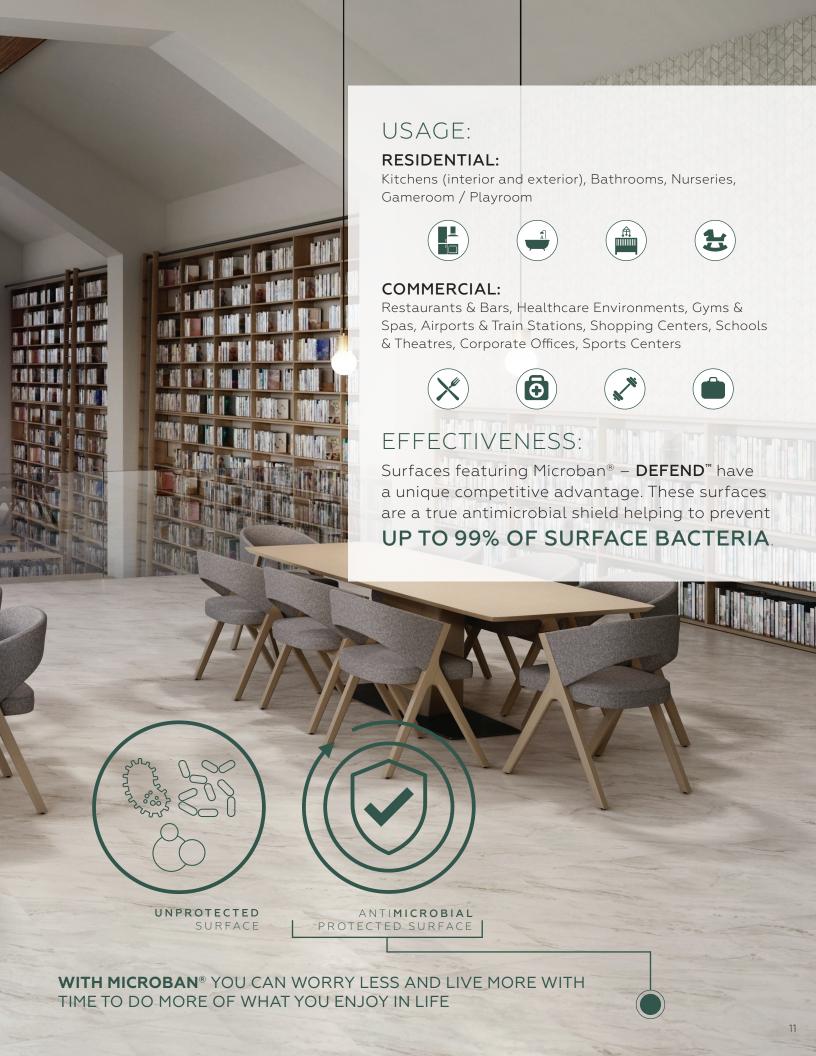
WHY CHOOSE **DEFEND**™?

Bacteria are invisible to the human eye, however that doesn't mean they aren't there! With surfaces featuring antimicrobial technology, the growth of bacteria is significantly reduced on floor, wall and mosaic tiles.

The presence of bacteria can also cause odors. Reducing bacteria counts reduces odor.

Surfaces with **DEFEND**™ are easier to keep clean. While having a product with builtin antimicrobial product protection is not a substitute for routine cleaning, it allows continuous and complete cleaning of your surfaces with an even better level of cleanliness in-between cleanings.





MARBLE LOOK

COLOR PALETTE











COLORBODY™ PORCELAIN FLOOR - 24 x 24 & 12 x 24 - AVAILABLE IN MATTE & POLISHED

ICONIC FM11











COLORBODY™ PORCELAIN CHEVRON MOSAIC - POLISHED



GLAMOUR FM13









GLAZED CERAMIC PENNY ROUND MOSAIC - MATTE











IR FM13 LUXE FM12

| SIZES:















MARBLE LOOK

COLOR PALETTE







8" 3D HEXAGON FLOOR TILE







6 x 18 WALL TILE







3 x 12 WALL TILE

CALYPSO DV05









3 x 12 PICKET WALL TILE



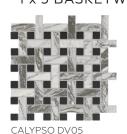


1 x 6 MOSAIC TILE













1/2 x 10 JOLLY TRIM

CALYPSO DV05

NOVA DV06

ZION DV07

SIZES:















FINISHES:



WOOD LOOK

COLOR PALETTE











COLORBODY™ PORCELAIN FLOOR - 8 x 48





BUTTER PECAN EP01 MB

ASH WHITE EPO6 MB



HICKORY PECAN EP05 MB

COLORBODY™ PORCELAIN FLOOR - 6 x 36



SMOKE TR23 MB



COLORBODY™ PORCELAIN 3D CUBE MOSAIC







HICKORY PECAN EP05 MB





⊐ 6 x 36 Floor Tile







STONE LOOK

COLOR PALETTE













FLOOR TILE - 12 x 24







PHILOSOPHER BEIGE RT06 MB



ELOQUENT GREY RT07 MB



MAESTRO VR10 MB



COMPOSER VR11 MB



STRIA MAESTRO VR13 MB

CHEVRON MOSAIC







SIZES:

12 x 24 Floor Til







COLOR PALETTE







FLOOR TILE - 15 x 30







TUSK CA41

ALMOND CA42

NIMBUS CA43

FLOOR TILE - 12 x 24







TUSK CA41

ALMOND CA42

NIMBUS CA43





CONCRETE LOOK

COLOR PALETTE















WHITE









FLOOR TILE - 24 x 48 & 24 x 24











FLOOR TILE - 12 x 24













PF04 MB







VL71 MB



TERRACOTTA RK14

WHITE RK10

BEIGE RK11

VL79 MB

LIGHT GREY RK12 MEDIUM GREY RK13

FOR COMPLETE PRODUCT INFORMATION, PLEASE VISIT WWW.DALTILE.COM/DEFEND

2 x 6 HERRINGBONE MOSAIC









CANVAS DOT MOSAIC











(SIZES:

24 x 48 Floor Tile 24 x 24 Floor Tile 12 x 24 Floor Til 2 x 6 l Mosai

2 x 6 Herringbone Mosaic

Canvas Dot Mosaic

FINISHES: MATTE





FABRIC LOOK

COLOR PALETTE





MODERN LINEAR FLOOR TILE - 12 x 24



MODERN LINEAR WHITE ML60 MB



MODERN LINEAR MEDIUM GREY ML63 MB

SIZES:

12 x 24
Floor Tile

FINISHES: MATTE





WALL

COLOR PALETTE







PLATEAU WALL TILE















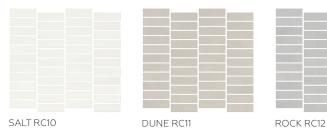


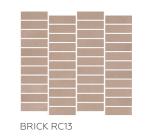






1 x 3 OFF-SET MOSAIC





DUNE RC11

| SIZES:









MOSAIC

COLOR PALETTE













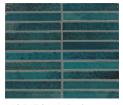
1 x 6 MOSAIC

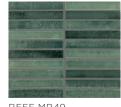












PEARL MR44

OYSTER MR45

SAND MR46

AQUA MR47

HORIZON MR48

REEF MR49

2 x 5 PICKET MOSAIC













3" FAN MOSAIC













SIZES:



2 x 5 Picket Mosaic













LEARN MORE AT DALTILE.COM/DEFEND.

Microban® is a registered trademark of Microban Products Company.

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