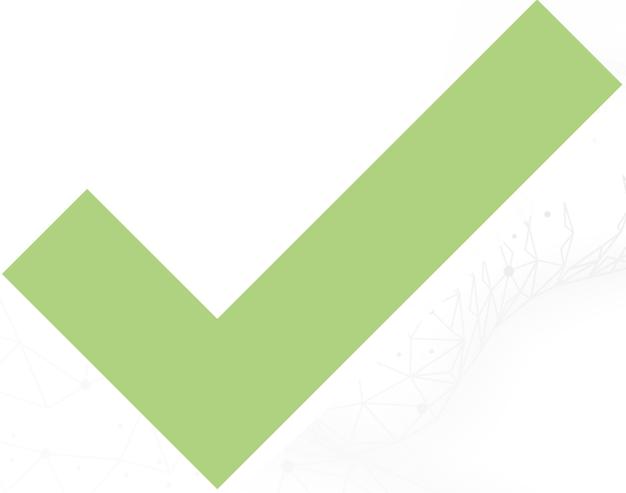




DEFENDTM
POWERED BY
MICROBAN[®]



PROTECT AGAINST THE INVISIBLE







Photo features Defend™ – Marble Look Glamour 12 x 24 matte on the floor.

WHAT IS MICROBAN® TECHNOLOGY

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

UNPROTECTED SURFACE
(Bacteria, Mold & Mildew)



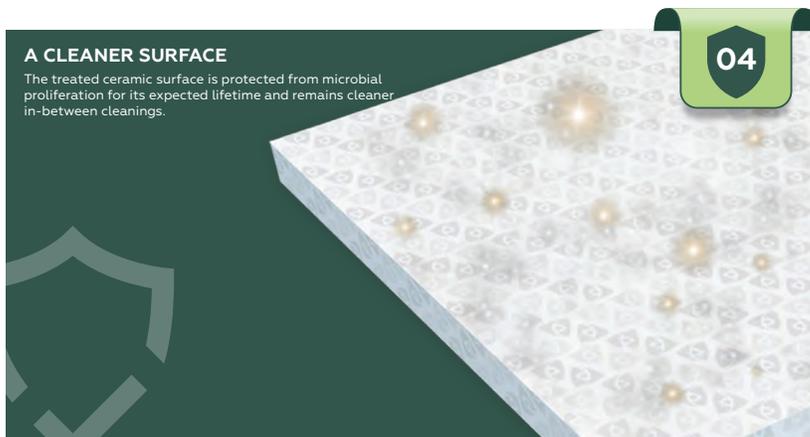
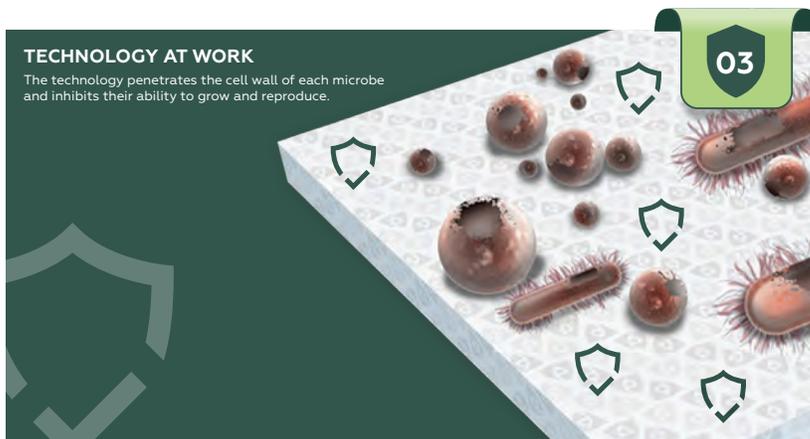
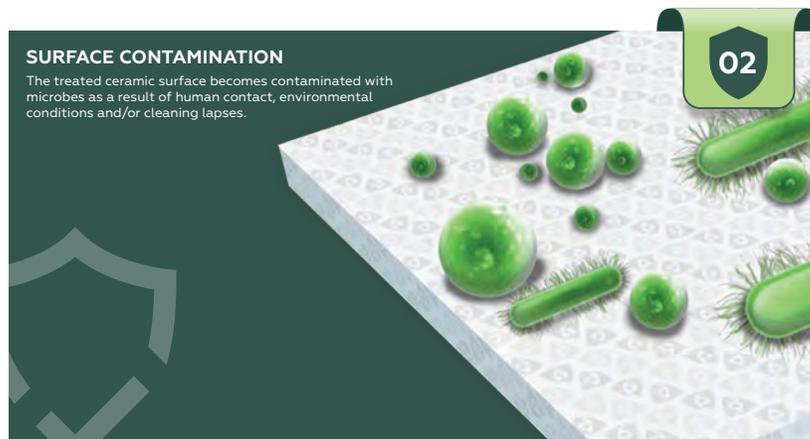
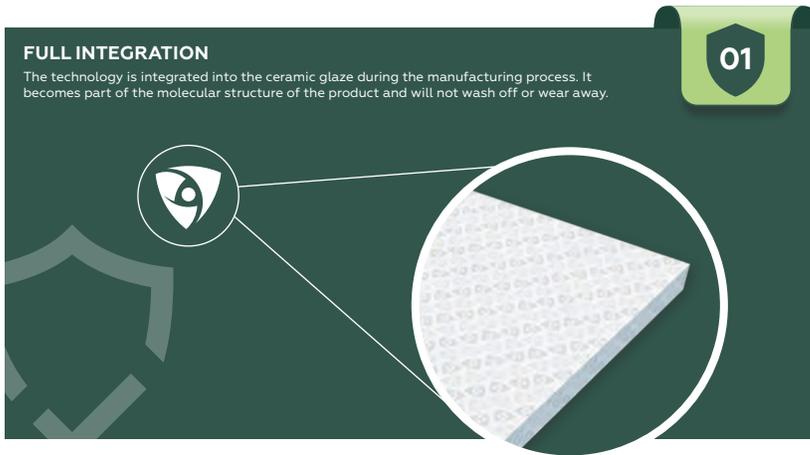
PROTECTED WITH
MICROBAN®

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.

Photo features Defend™ – Wood Look Smoke 6 x 36 on the floor.



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.



Photo features Defend™ – Marble Look Glamour 12 x 24 matte on the floor.



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 ceramic 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

Selected 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 built-in 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.

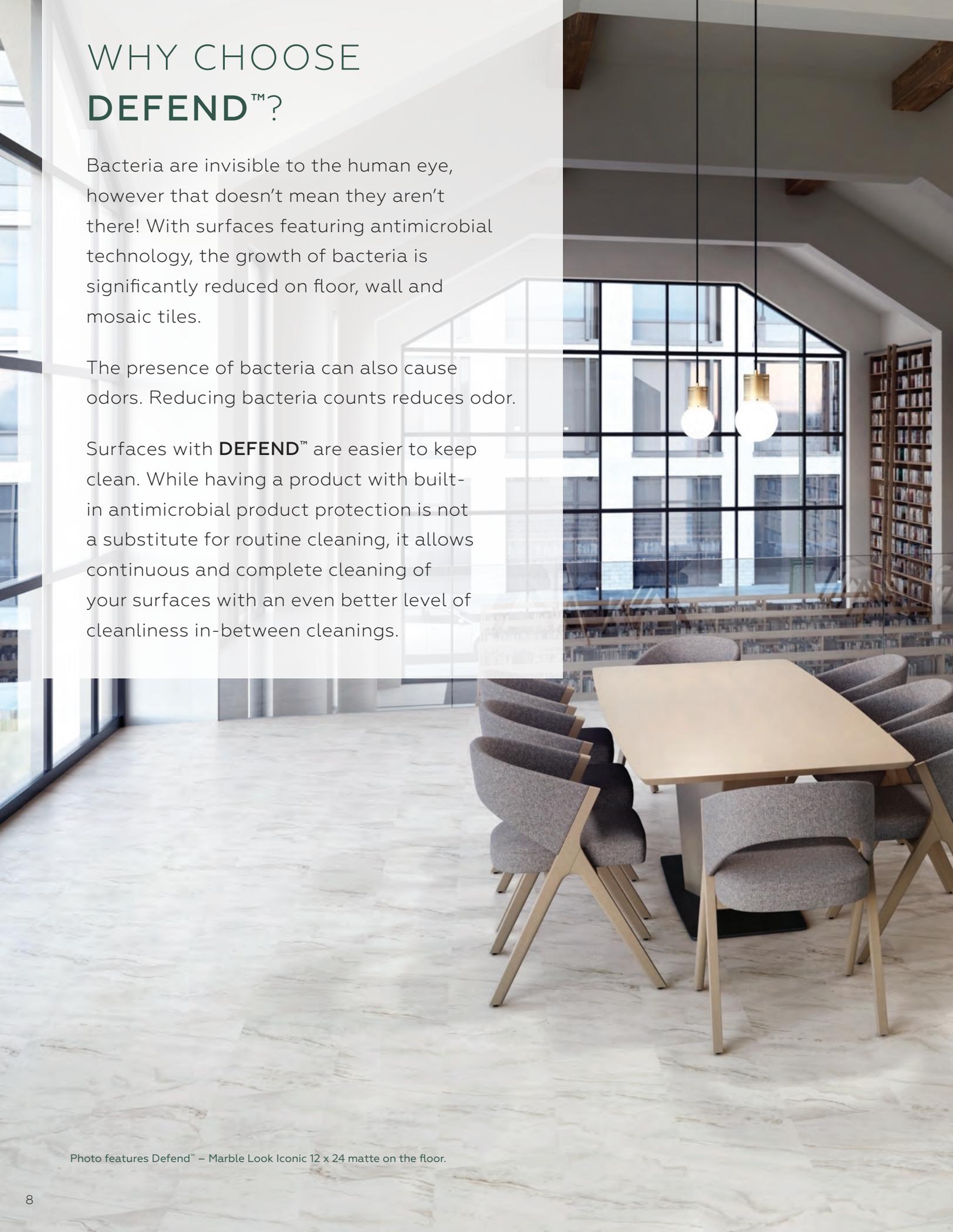


Photo features Defend™ – Marble Look Iconic 12 x 24 matte on the floor.

USAGE:

RESIDENTIAL:

Kitchens (interior and exterior), Bathrooms, Nurseries, Gameroom / Playroom



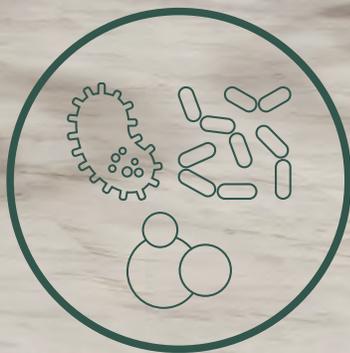
COMMERCIAL:

Restaurants & Bars, Healthcare Environments, Gyms & Spas, Airports & Train Stations, Shopping Centers, Schools & Theatres, Corporate Offices, Sports Centers



EFFECTIVENESS:

Surfaces featuring Microban® – **DEFEND™** have a unique competitive advantage. These surfaces are a true antimicrobial shield helping to prevent **UP TO 99% OF SURFACE BACTERIA.**



UNPROTECTED
SURFACE



ANTIMICROBIAL
PROTECTED SURFACE

WITH MICROBAN® YOU CAN WORRY LESS AND LIVE MORE WITH TIME TO DO MORE OF WHAT YOU ENJOY IN LIFE





MARBLE LOOK

COLOR PALETTE



DIAMOND



ICONIC



FORTUNE



GLAMOUR



LUXE

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



DIAMOND FM10 MB



ICONIC FM11 MB



FORTUNE FM14 MB



GLAMOUR FM13 MB



LUXE FM12 MB

COLORBODY™ PORCELAIN CHEVRON MOSAIC – POLISHED



DIAMOND FM10 MB



ICONIC FM11 MB



FORTUNE FM14 MB



GLAMOUR FM13 MB



LUXE FM12 MB

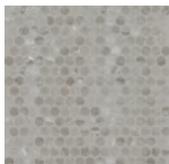
GLAZED CERAMIC PENNY ROUND MOSAIC – MATTE



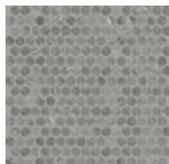
DIAMOND FM10 MB



ICONIC FM11 MB



FORTUNE FM14 MB



GLAMOUR FM13 MB



LUXE FM12 MB

SIZES:



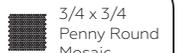
24 x 24
Floor Tile



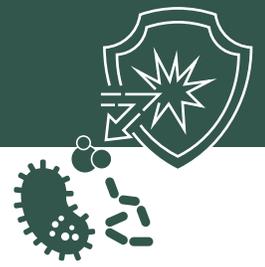
12 x 24
Floor Tile



3 x 6
Chevron
Mosaic



3/4 x 3/4
Penny Round
Mosaic



WOOD LOOK

COLOR PALETTE



ASH WHITE



BUTTER PECAN



HICKORY PECAN



SMOKE



NATURAL ASH

COLORBODY™ PORCELAIN FLOOR – 8 x 48



ASH WHITE EP06 MB



BUTTER PECAN EP01 MB



HICKORY PECAN EP05 MB

COLORBODY™ PORCELAIN FLOOR – 6 x 36



SMOKE TR23 MB



NATURAL ASH TR21 MB

COLORBODY™ PORCELAIN 3D CUBE MOSAIC



ASH WHITE EP06 MB



BUTTER PECAN EP01 MB



HICKORY PECAN EP05 MB

SIZES:



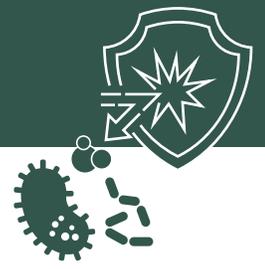
8 x 48
Floor Tile



6 x 36
Floor Tile



3D Cube
Mosaic



STONE LOOK

COLOR PALETTE



ARISTOTLE WHITE



PHILOSOPHER BEIGE



ELOQUENT GREY



MAESTRO



COMPOSER



STRIA MAESTRO

FLOOR TILE – 12 x 24



ARISTOTLE WHITE RT05 MB



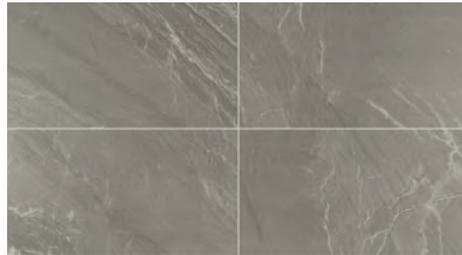
PHILOSOPHER BEIGE RT06 MB



ELOQUENT GREY RT07 MB



MAESTRO VR10 MB



COMPOSER VR11 MB



STRIA MAESTRO VR13 MB

CHEVRON MOSAIC



MAESTRO VR10 MB



COMPOSER VR11 MB



STRIA MAESTRO VR13 MB

SIZES:



12 x 24
Floor Tile

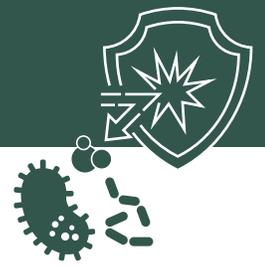


Chevron
Mosaic

FINISHES: MATTE



Photo features Defend™ – Stone Look Eloquent Grey 12 x 24 matte on the floor.



CONCRETE LOOK

COLOR PALETTE



STEREO GREY



ELECTRIC MOSS



DEGREES SILVER



AMPLIFY BLACK



ICE



DOVE GREY

FLOOR TILE – 12 x 24



STEREO GREY VL73 MB



ELECTRIC MOSS VL79 MB



DEGREES SILVER VL71 MB



AMPLIFY BLACK VL70 MB



ICE PF01 MB



DOVE GREY PF04 MB

SIZES:



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

FINISHES: MATTE



Photo features Defend[™] – Concrete Look Dove Grey 12 x 24 matte on the floor.



FABRIC LOOK

COLOR PALETTE



MODERN
LINEAR WHITE



MODERN LINEAR
MEDIUM GREY

MODERN LINEAR FLOOR TILE – 12 x 24



MODERN LINEAR WHITE ML60 MB



MODERN LINEAR MEDIUM GREY ML63 MB

SIZES:



12 x 24
Floor Tile

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

FINISHES: MATTE



Photo features Defend™ – Fabric Look Modern Linear Medium Grey 12 x 24 matte on the floor.







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LEARN MORE AT [DALTILE.COM/DEFEND](https://www.daltile.com/DEFEND).
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