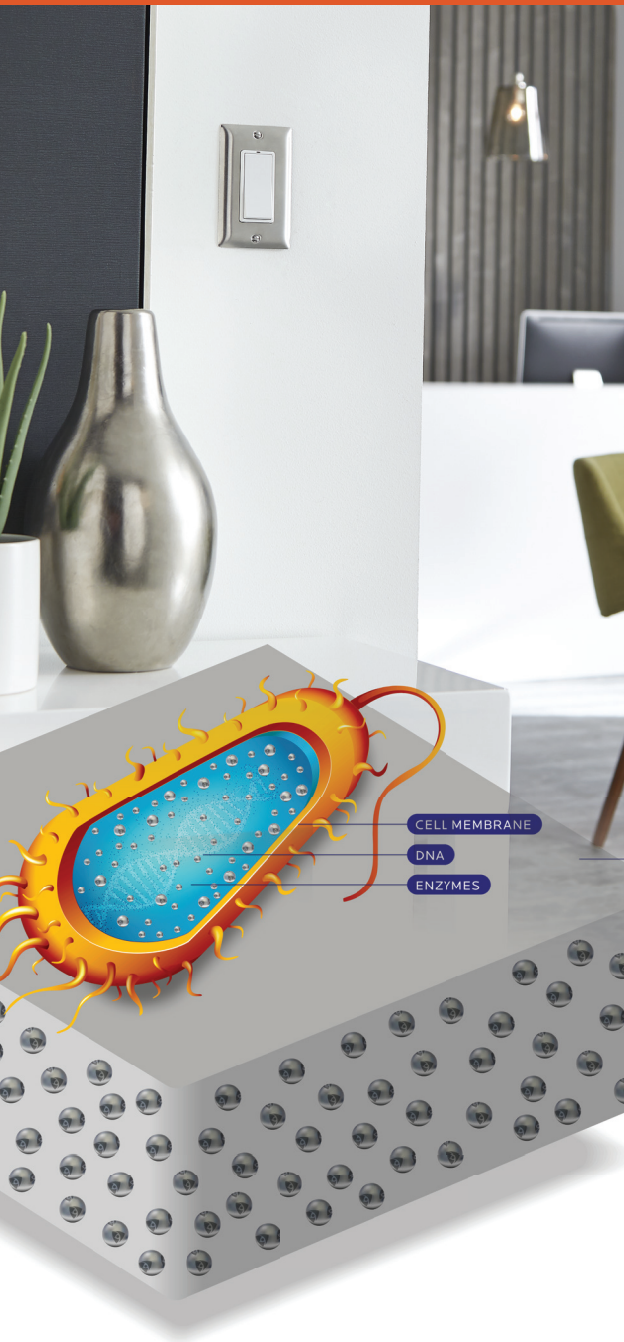


# Legrand & Microban Antimicrobial Product Protection

## FREQUENTLY ASKED QUESTIONS



### What is an antimicrobial?

An antimicrobial can be defined as a substance that works to inhibit the growth and reproduction of microorganisms such as bacteria.

### What is Microban® antimicrobial product protection?

Microban® is built-in protection for solid products, coatings and fibers. The technology works to inhibit the growth of microbes on a surface that can cause staining, bad odors and premature degradation. Microban® has a portfolio of more than 25 approved antimicrobial technologies that are selected and optimized for a broad range of product applications.

### 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® antimicrobial technology will start to work as soon as a microorganism comes into contact with the protected surface.

### Why has Legrand added Microban® antimicrobial protection to its products?

Legrand has a longstanding tradition of using innovation to continuously develop electrical wiring devices of the utmost quality, safety, reliability and performance. In partnering with Microban, Legrand continues this legacy by incorporating leading and innovative antimicrobial technology which helps reduce the growth of bacteria, around the clock, for the lifespan of the protected product. We believe this offers tremendous benefit to our customers, for use in any of the spaces where they live, work, learn or play.

# Legrand & Microban Antimicrobial Product Protection

## FREQUENTLY ASKED QUESTIONS



**TURN ON MORE THAN JUST THE LIGHTS.**  
Turn on peace of mind with antimicrobial protection.

How has Microban protection been incorporated into Legrand's products?

Microban® antimicrobial additives can be supplied in powder, polymer pellet or liquid forms, depending on the products being treated and the manufacturing process employed. For example, polymer masterbatches are supplied in a choice of carrier resins, closely matched to the virgin polymer to allow homogeneous mixing and distribution. Each Legrand product being offered with Microban protection has incorporated the antimicrobial technology in the best fashion for its base material and manufacturing process.

Does Microban product protection begin working immediately?

Microban® protection begins to work as soon as a microorganism comes into contact with the product surface. It then works continuously to maintain a consistently lower bio-burden than would be expected on a product without Microban® antimicrobial protection.

What active ingredients are contained within Microban antimicrobial additives?

Microban® antimicrobial additives are predominantly based on silver and zinc active ingredients. However, we have the world's largest portfolio of antimicrobial technologies that can be customized to suit almost any product application.

Do the Microban antimicrobial additives being used by Legrand include triclosan or triclocarban chemicals?

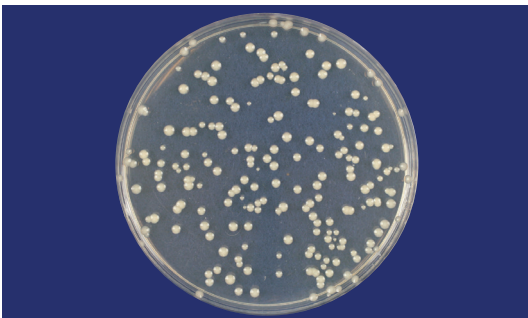
No. Neither triclosan nor triclocarban, in any concentrations, are present within the Microban product protection being incorporated by Legrand. The Microban additives have been fully regulated for all regions in which they are being used.

What types of microorganisms does Microban technology work against?

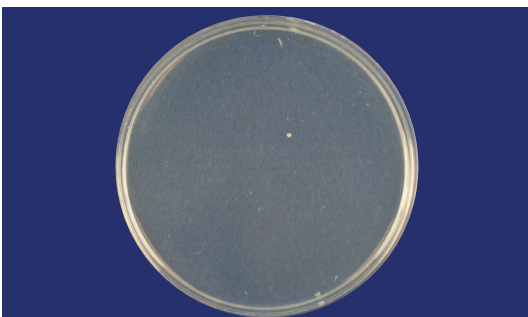
Microban® antimicrobial protection will inhibit the growth of most common bacteria, yeasts, molds and fungi. It has even been proven effective against a broad spectrum of gram-negative and gram-positive bacteria.

Does Microban product protection reduce the need for regular cleaning?

No. Microban® antimicrobial technology is designed to complement existing cleaning practices and should not replace them. Regular cleaning practices should be maintained.



Bacteria recovered from **untreated** polymer sample



Bacteria recovered from **treated** polymer sample

# Legrand & Microban Antimicrobial Product Protection

## FREQUENTLY ASKED QUESTIONS

### Is Microban technology a surface coating?

Microban® antimicrobial additives are used in a range of material types including polymers, coatings, ceramics and textiles. When incorporated into paints, lacquers or powder coatings, Microban® is designed to function in the coating only. However, when incorporated into solid materials such as polymers, Microban® is homogeneously distributed throughout the entire product.

### How do Microban antimicrobial additives differ from disinfectants?

Unlike disinfectants which provide a limited residual activity once the treated surface dries, integrated Microban® antimicrobial technology works to continuously inhibit the growth of microbes throughout the entire life cycle of a product.

### How durable is Microban product protection?

Integrated Microban® product protection will remain present in a product for its expected lifetime. The technology will not wash off, leach out or wear away.

### How is Microban technology tested?

Microban® treated products are tested for their efficacy in accordance with internationally recognized standards such as ISO 22196:2007, JIS Z 2801:2000, ISO 20743:2007, JIS L 1902:2002, AATCC TM100, AATCC TM30 Pt III. The test method will be selected depending on the product type and antimicrobial additive used.



### Is Microban technology safe to use?

Microban® antimicrobial additives have undergone extensive independent laboratory testing and have a long history of safe use, across a wide range of product types. The biocidal active components of Microban® antimicrobial additives are regulated by the Environmental Protection Agency as treated articles and are proven safe and effective for their specific end use applications.

### How do I know if my Legrand product includes Microban protection?

Legrand's treated devices and wall plates can be identified by the inclusion of a large green dot and/or a Microban® protection label on the product packaging.