

WHAT TO KNOW ABOUT BACTIBLOCK®



Bactiblock® is an antimicrobial additive specially formulated for addition to liquid coatings supplied by Accessa. The proprietary, patented technology is based on silver-functionalized clay that creates a naturally sourced and highly efficient antimicrobial product.

The additive prevents the growth of bacteria, mold, fungus and other microorganisms, which also makes Bactiblock® a powerful tool against odors and stains. The active ingredient in Bactiblock® is ionic silver (Ag), a naturally occurring element with a well-known antimicrobial spectrum, as well as being widely recognized as safe for human contact.

WHY SILVER?

Silver is a broad-range antimicrobial agent that has been proven effective against the most harmful microorganisms present in everyday life, such as E.coli, Legionella, Pseudomonas, S. aureus, Aspergillus niger, and Coronaviruses among others.

Ionic silver is a multi-site antimicrobial, which is an advantage compared to many organic solutions that only offer 1-site functionality. The ionic silver not only disrupts folic acid synthesis, but it also disrupts protein synthesis, inhibits DNA synthesis, disrupts electron transport and interferes with cell wall synthesis.

The silver species linked to the clay platelets are released to the surface of the protected material at a controlled rate. This ensures a more uniform and long-term antimicrobial effect, compared to additives with the active species readily available in the polymer. Bactiblock® is therefore ideally suited for long-term applications and although durability in most cases depends on wear and environmental conditions, the antimicrobial performance can be expected to endure for several years.

BACTIBLOCK® APPLICATIONS

Because silver is considered not to be harmful to humans, animals, or plants. Bactiblock® can be used in a wide range of applications where hygiene, odor control and stain resistance are main objectives. Due to the high versatility, durability, and efficiency of the product, coatings applications are found in a wide range of sectors:

- **Construction: including cabinetry, countertops, and millwork.**
- **Office furniture**
- **Electronics**
- **Apparel & Sports**
- **Healthcare**
- **Food**
- **Amusement**

Find out more about the Bactiblock® antimicrobial additive today.

800-593-0126

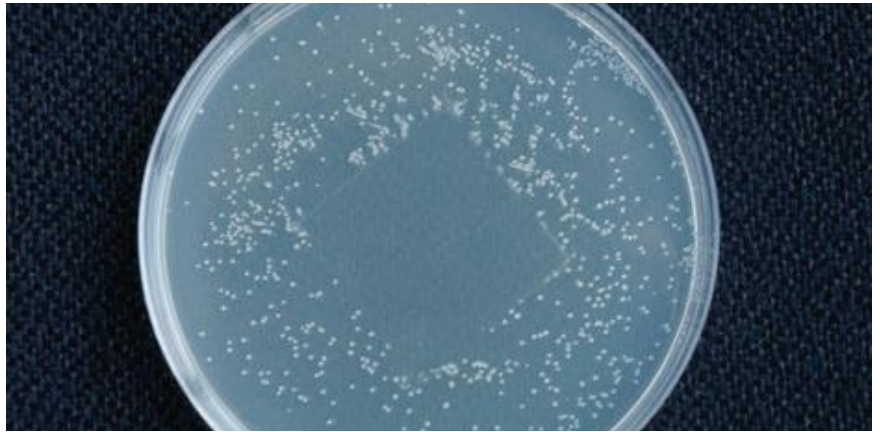
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KEY FACTS

- Solution to achieve a higher level of hygiene.
- High efficiency against pathogen organisms present in hospital acquired infections.
- Built-in, long-lasting protection of products and surfaces.
- Product approval by EPA/ FDA and other international associations. *US EPA Registration #: 94446-1*
- Additives based on cutting-edge technology.
- Efficient control systems of critical points and problems of cross-contamination.
- Value-added product differentiated from competitors.

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Petri Plate containing a film with Bactiblock®, inhibited bacterial (E. coli) growth on the film

TESTING OF ANTIMICROBIAL ACTIVITY

The antimicrobial activity of materials containing Bactiblock® is typically tested using the standard protocol for surface antimicrobial activity JIS Z 2801, which is equivalent to ISO 22196:2007. Depending on the specific application, other tests are also routinely carried out, such as ASTM E2149 and NCCLS.

These tests can be carried out by the manufacturer's laboratories or their partner laboratories.

See: Viricide screening according to standard UNE-EN 14476:2014 + A1:2015 for "Chemical antiseptics and disinfectants. Quantitative suspension test for the evaluation of viricidal activity in medicine" report from March, 2020.

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