



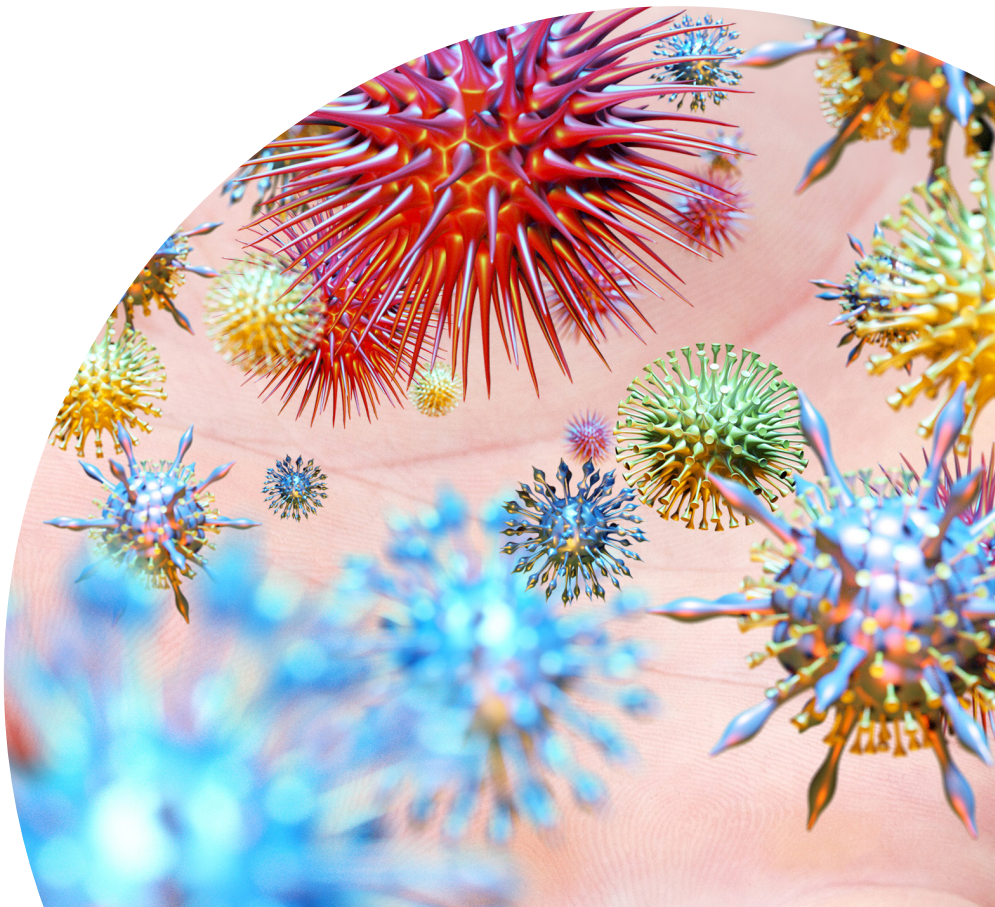
ANTIMICROBIAL SURFACE PROTECTANT

BioSpear™ liquid antimicrobial treatments are a safe and effective way to protect virtually any surface with a micro biostatic barrier that inhibits the growth of bacteria. By mobilizing the BioSpear™ molecule in a ready-to-use liquid, almost anyone can lay down a bacteriostatic barrier that continues working long after it dries on a surface. With its unique method of efficacy, BioSpear™ Antimicrobial Protectant will reduce the instances of microbial contamination by making a surface inhospitable for colonization.

BioSpear™ Antimicrobial Protectant easily and effectively protects surfaces even if you miss a day, or even a week of sanitizing. BioSpear™ antimicrobial protectants have you covered.

With easy to use foggers, electrostatic sprayers or just a misting or spray bottle, BioSpear™ can be applied to a clean, sanitized surface for persistent, long-term protection.

ITEM	DESCRIPTION	CASE QUANT.
BSMP RTU 1	1 gal. RTU Antimicrobial Protectant	4
BSMP RTU 15	15 gal. RTU Antimicrobial Protectant	1



BIOSPEAR™ ANTIMICROBIAL BIOSTATIC SURFACE PROTECTANT | TECHNICAL BRIEF

Why use BioSpear™ Antimicrobial Biostatic Surface Protectant?

BioSpear™ antimicrobial surface protectant is an EPA-registered microbiostatic agent designed to help protect a variety of surfaces from the colonization of bacteria, mold and mildew.

Active Ingredient: 3-(trihydroxysilyl) propyldimethyloctadecyl ammonium chloride (0.84%)

Other ingredients: (99.16%)

Total ingredients: (100%)

Warnings: Keep out of reach of children.

See below for additional precautionary statements.

BioSpear™ protectant is a water based formulation that can be applied to virtually any clean porous or non-porous surface by spraying, wiping, dipping or brushing. Once dried, BioSpear™ is durable, non-leaching, non-gassing, non-toxic and is effective against a wide variety of microbial contaminants. After applying BioSpear™ to a clean surface, let dry at room temperature. In some cases it may be necessary to initially apply BioSpear™ twice. If needed, reapply BioSpear™ every 60-90 days. BioSpear™ treats approximately 2000 square feet per gallon.

Although BioSpear™ is a durable treatment, surface scrubbing and abrasion will remove the technology from a treated surface. In areas of high activity or frequent abrasion, it is recommended that you apply BioSpear™ more frequently. When correctly applied, the active ingredient in BioSpear™ Surface Protectant has been laboratory tested and shown to be effective in inhibiting the colonization of the following microorganisms:

VIRUSES

Adenovirus Type II & IV
Herpes Simplex Type II
Influenza B
Reovirus Type 1
PRD1

Bovine Adenovirus Type I & IV
HIV-1 (AIDS)
Mumps
Simian Virus 40

Feline pneumonitis
Influenza A2 (Aichi)
Parinfluenza (Sendai)
Vaccinia

Herpes Simplex Type I
Influenza A2 (Asian)
Rous Sarcoma
MS2

GRAM POSITIVE BACTERIA

Bacillus sp. (vegetative cell)
Mycobacterium tuberculosis
Staphylococcus epidermis
Streptococcus pyogenes

Corynebacterium diptheriae
Mycobacterium smegmatis
Streptococcus faecalis

Micrococcus lutea
Propionibacterium acnes
Streptococcus mutans

Micrococcus sp.
Staphylococcus aureus
Streptococcus pneumonia

GRAM NEGATIVE BACTERIA

Serratia marcescens
Cibrobacter deversus
Enterbacter cloacae
Klebsiella terriena
Proteus vulgaris
Salmonella typhi

Anthomonas campestris
Citrobacter freundii
Enterococcus
Legionella pneumophila
Pseudomonas aeruginosa
Salmonella typhimurium

Acinetobacter calcoaceticus
Enterobacter aerogenes
Escherichia coli
Morganella morgani
Pseudomonas fluorescens
Serratia liquefaciens

Aeromonas hydrophilia
Enterbacter agglomerans
Klebsiella pneumoniae
Proteus mirabilis
Salmonella cholerae suis

FUNGI, ALGAE, MOLD YEAST, SPORES

Alterania alternate
Aspergillus sydowii
Aureobasidium pullans
Cladosporium cladosporioides
Gilomastix cerealis
Monilia grisea
Penicillium funiculosum
Pithomyces chartarum
Scoleobasidium humicola
Trichophyton maidson

Alphanizomenon sp.
Aspergillus terreus
Candida albicans
Chlorella vulgaris
Gloeophyllum trabeum
Oscillatoria
Penicillium pinophilum
Poria placenta
Selanastrum sp.
Trichophyton mentogrophytes

Aspergillus flavus
Aspergillus versicolor
Candida psudotropocalis
Dreschlera australiensis
Microsporum sp.
Penicillium chrysogenum
Penicillium variable
Scenedesmus
Trichoderma viride
Trichophyton sp.

Aspergillus niger
Aspergillus verrucaria
Chaetomium globosum
Epidermophyton sp
Microsporum audouinii
Penicillium commune
Phoma fimetii
Saccaromyces cerevisiae
Trichophyton interdigitale