

**UP TO  
90  
DAYS**

## 1 | BioShield<sup>®</sup> 75 Basics

Normal cleaning and disinfecting practices only provide protection until the next contamination event. Once dry, the surfaces are no longer protected against microbes.

BioShield<sup>®</sup> 75 was developed to address this deficiency in available technologies. BioShield<sup>®</sup> 75 is a revolutionary broad-spectrum antimicrobial that provides protection against a wide range of microorganisms including bacteria and fungi. Once dry, the BioShield<sup>®</sup> layer polymerizes onto the surface, leaving a microbiostatic layer that is effective for up to 90 days. BioShield<sup>®</sup> 75 is EPA registered and approved for food contact surfaces and hospital use.

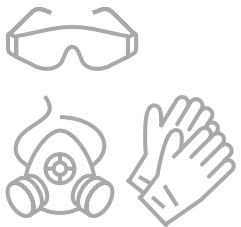


## 2 | Equipment and Coverage Rates

Equipment will vary according to the environment and time constraints. The most common method of application for BioShield<sup>®</sup> 75 is by spraying with a trigger sprayer, pump-up sprayer or backpack sprayer. Coverage will vary between 200 and 1,200 square feet per gallon.

The most efficient way to spray and cover ALL surfaces in a room is by electrostatic sprayer such as E-mist 360 or a mister such as the Karcher PS 4/7 Bp. The efficiency of the electrostatic spray and mister yields coverage in the range of 1,500 and 3,500 square feet per gallon depending on calibration.

**NOTE:** When computing total gallons needed, do not use square feet of the facility as a guide. This is only the footprint. Calculate ALL surface area to be treated, that includes floors, walls, ceilings and an estimate of equipment within each area. Consider walls and ceilings the last areas to be treated.



## 3 | Storage and Handling

The user should be familiar with all the cautions listed on the label of the BioShield<sup>®</sup> 75 packaging. Proper PPE is recommended, including an N95 mask, eye protection, and latex or nitrile gloves. Refer to the SDS (Safety Data Sheet) for proper handling instructions.

Stored BioShield<sup>®</sup> 75 should be kept at a temperature between 32 °F to 100 °F (0.5 °C to 38 °C). Do not allow the product to freeze. If the product does freeze, allow it to thaw and mix thoroughly before using. Refer to the SDS (Safety Data Sheet) for proper storage instructions.



#### 4 | Pre-application Requirements

The bonding technology of BioShield® 75, requires certain surface conditions. All surfaces to be treated must be clean and dry before application.

Surfaces previously cleaned with any detergent and/or sanitizing product should be rinsed with water prior to the application of BioShield® 75. This must be done to remove any residual.



#### 5 | Applying BioShield® 75

##### Deep Clean

Apply a coat of EnviroSystems® 420-4 Green Kleen by sprayer and allow to soak for 15 minutes, then wipe off using clean cloths. The surfaces should then be rinsed with clean water and allowed to thoroughly dry. This process will remove all cleaning product residues, leaving the surface properly prepared for the application of BioShield® 75.

For environments requiring a sanitizer step (such as food service, food processing, healthcare, etc.), apply EnviroSystems Santizer 440 at 3.5 oz//5-gallons of water and allow a minimum of 10-minute contact time (do not rinse or wipe). The surface must be dry before applying BioShield® 75.



##### Apply BioShield® 75 for long lasting protection

After ensuring all surfaces are thoroughly dry, apply a coating of BioShield® 75 by spraying. Allow to dry, then apply a second coat. (**Note:** two light coats are better than one heavy coat).

Once the treated surfaces are completely dry, BioShield® 75 is active against microorganisms. BioShield® bonds to the surface with a copolymer bond and does not wash off during normal cleaning cycles. However, vigorous abrasion, temperatures above 482 °F (250 °C) and very high pH cleaning chemicals (pH13) may remove the biostatic protective coating in less than 90 days.

Normal cleaning regimes should be continued on the protected surface between applications of BioShield® 75.



#### 6 | Post-Application Process

When at all possible, BioShield® 75 treatment should be allowed to air dry. If the surfaces have been wet with BioShield® 75 for a minimum of ten minutes, the surface may be wiped dry.

Studies show regular daily cleaning helps to extend the efficacy of BioShield® 75. At the same time, high-touch areas may require more frequent applications of BioShield® 75. Ask us how to predict and assess the durability of BioShield® 75 in your facility.