

# SURFACEGUARD90 BIOSTATIC SURFACE PROTECTION FOR CLOTHING, PLASTICS AND METALS

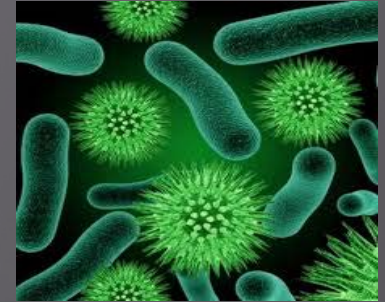
**SurfaceGuard90**  
Long Lasting Biostatic Surface Protectant



# Why do we need antimicrobials?

## According to World Health Organization:

- Infection is the #1 Cause of Death Worldwide
- #3 Cause of Death in United States
- Less than 50% of Infections Controlled By Antibiotics



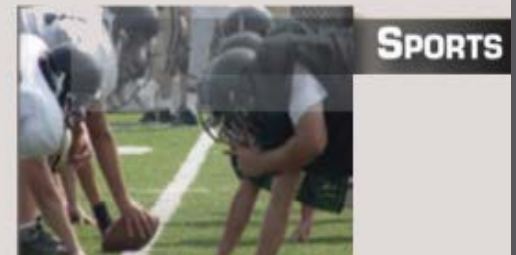
## According to US News & World Report:

- \$50 Billion + Spent Each Year by US Businesses due to Absenteeism
- Microorganisms are mutating into “Super Bugs”
- CDC Claims 80% of Infections Passed By Human Hands, Touching Contaminated Surfaces.



# SurfaceGuard90 is **NOT** a, CLEANER or DISINFECTANT

It is an Antimicrobial Biostatic Surface Protectant or Film that creates a highly durable transparent protective coating to porous and non-porous surfaces. Upon drying it forms a “bed of molecular spikes” that pierce the cell walls of microbes and germs Efficacy is from a mechanical kill of microorganism.





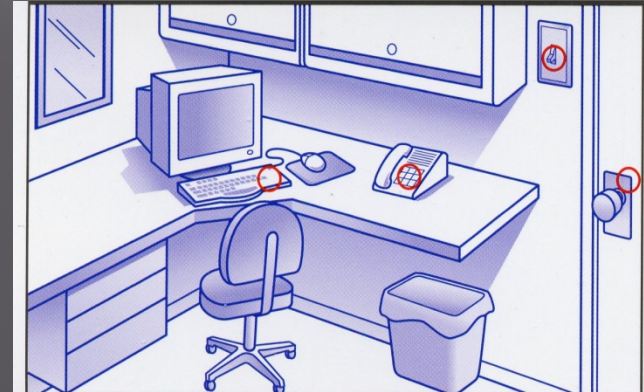
# SurfaceGuard90

Long Lasting Biostatic Surface Protectant

SurfaceGuard90 is a EPA registered, innovative product.

Water-based, water safe spray-on antimicrobial protection for porous and non-porous surfaces.

SurfaceGuard90 biostatic protection is an added level of protection against damaging microbes such as bacteria, mold and mildew.



# SurfaceGuard90

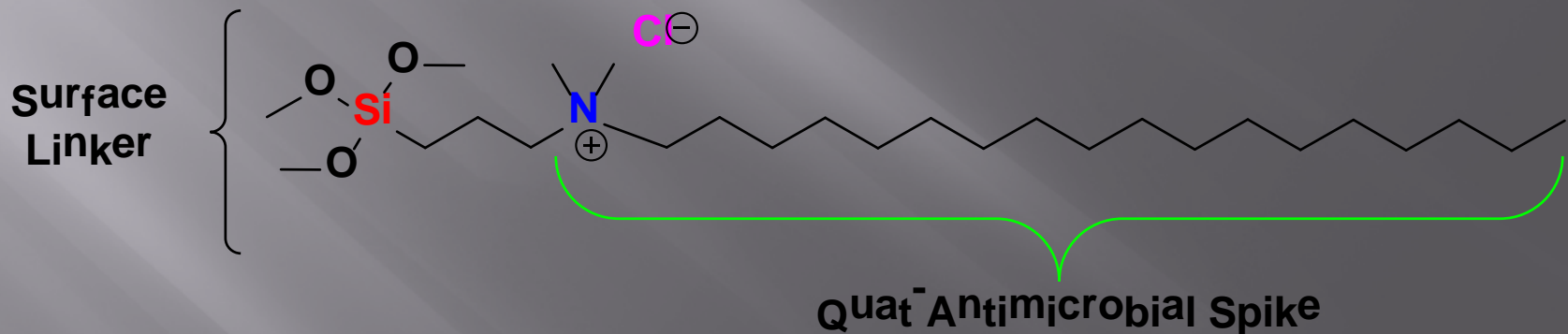
Long Lasting Biostatic Surface Protectant



- Completely Water Based Product
- EPA Registered Patented Technology
- Odorless and Colorless
- Creates A Microbial Spike – 1/1000<sup>th</sup> of the Width of a Human Hair
- Highly Durable, Long Lasting Protective Coating
- Will Not Wash Off with Cleaners or Harsh Chemicals
- Reduces Frequency of Deep Cleaning
- Improves the Cleaning Process
- Engineered For Around the Clock Protection – Works 24/7
- Continuously Fights the Growth of Microbes that Cause Odors and Discoloration of Surfaces
- Molecular Bond to All Porous and Non-Porous Surfaces
- Controls Mold & Mildew from Reoccurring
- Highly Effective in Preventing Cross Contamination
- Use on Fabrics For Permanent Protection

# SurfaceGuard90

Effectiveness: The molecule never releases itself from surfaces as all other antimicrobials do.

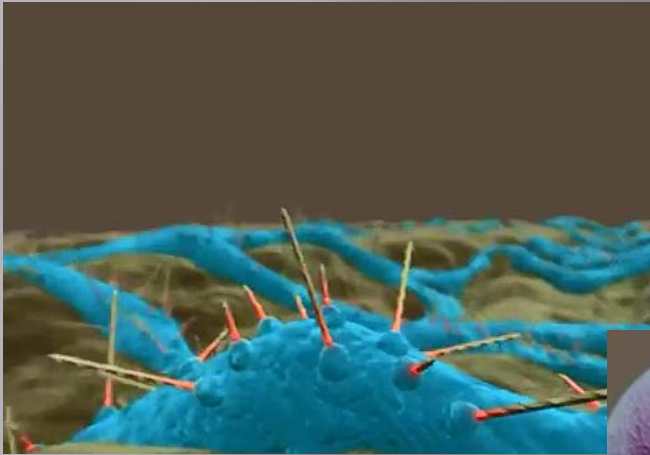


Durability: The product's stable molecular structure results in a protectant that is long lasting. Protects from 90 days to years depending on surface used on.



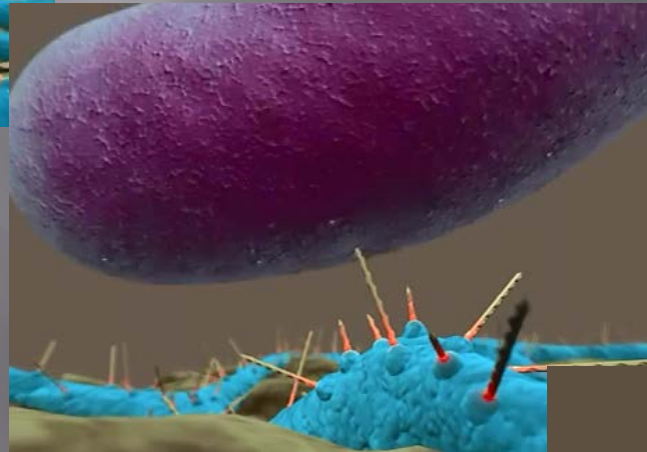
# Kill Mechanism of SurfaceGuard90

**Produces A Mechanical Kill**



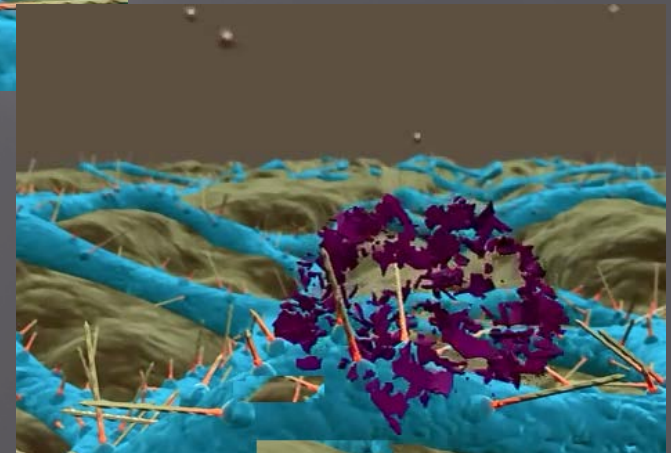
Produces Molecular Spike

Bonds to ALL Surfaces

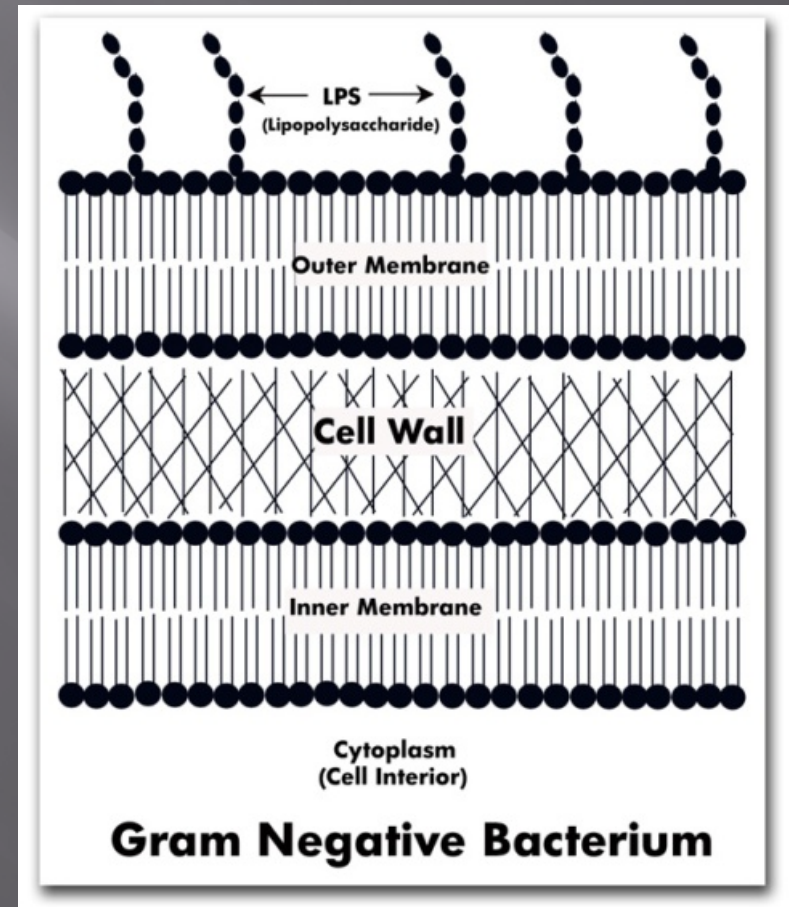
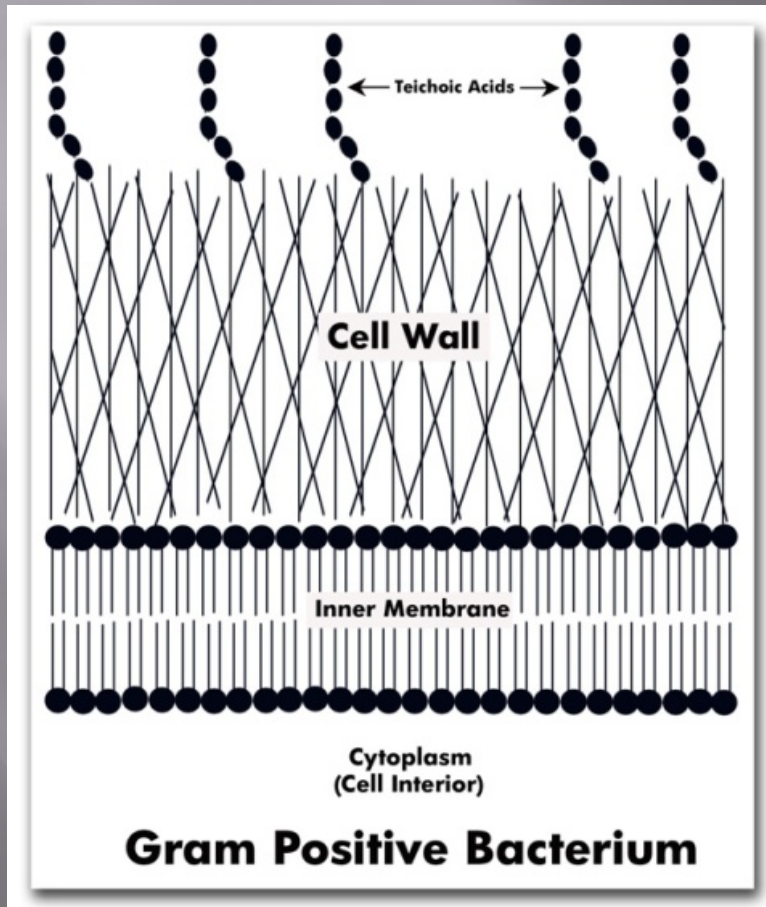


Positively Charged  
Nitrogen Atom  
Attracts Microbe

Microbe Is Destroyed  
by Molecular Spike  
Penetrating Cell Wall

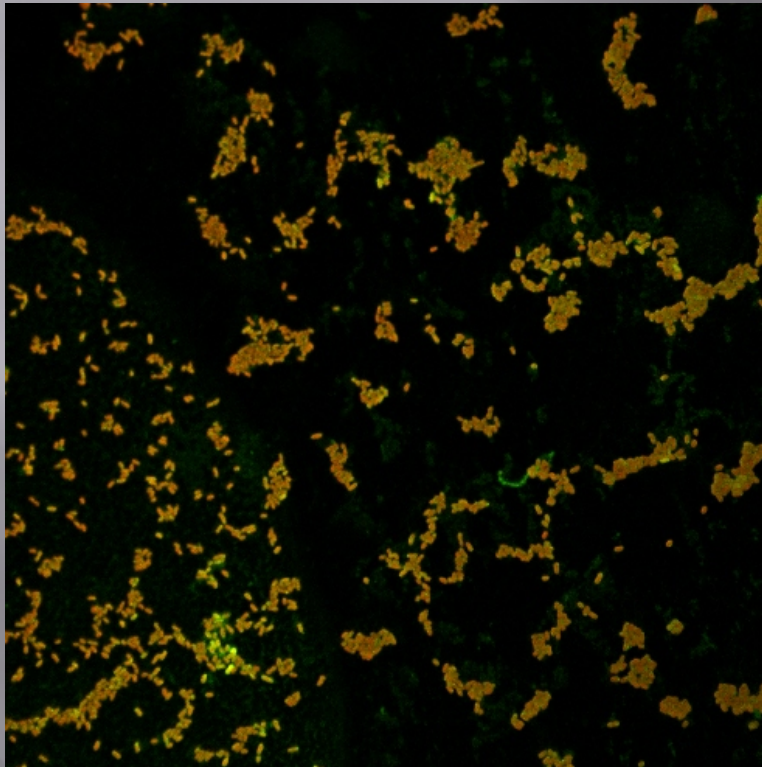


# Penetrates both gram positive and gram negative bacteria

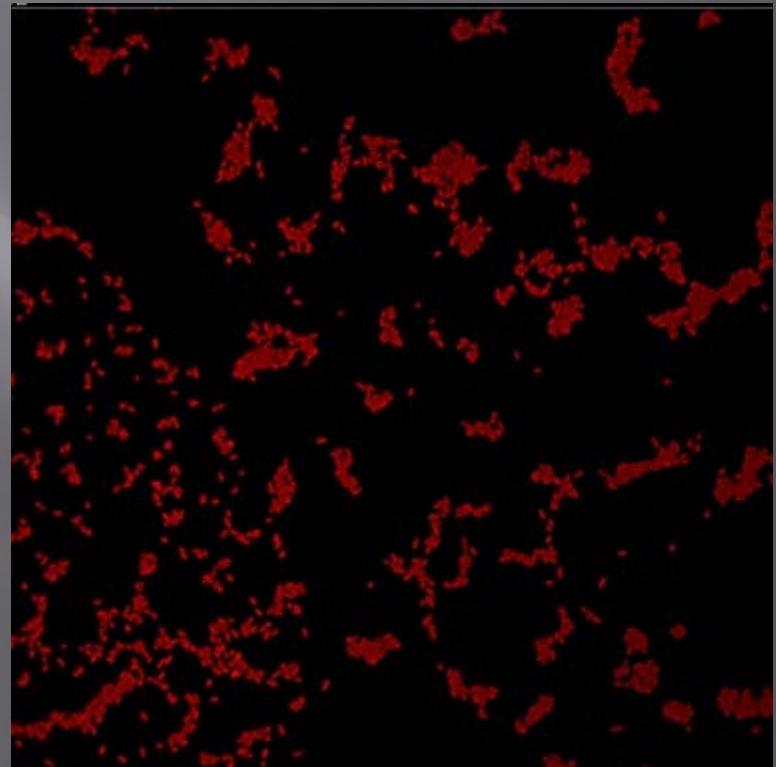




# SurfaceGuard90 in Action



Cells after 2hrs



Filtered to show dead cells

# Why is SurfaceGuard90 different?

SurfaceGuard90 is a biostatic surface protectant. It does not:

- Leach Poisons like  $\text{Ag}^+$  or Triclosan
- Contain toxic Heavy Metals

SurfaceGuard90 protects surfaces and textiles in between cleanings.

- Attaches to form a self-assembled monolayer on many surfaces

# Does SurfaceGuard90 begin working immediately?

SurfaceGuard90 starts to work as soon as the microorganism comes into contact with the treated surface.

It works continuously to maintain a consistently lower bio-burden (reduces potential to form biofilms) than surfaces without SurfaceGuard90 protection.



# How do I know that SurfaceGuard90 is safe?

The SurfaceGuard90 technology has undergone extensive independent laboratory testing and has a long history of safe use.

It is registered with the EPA for all applications in which it used. (EPA Reg No. 87583-3-91059)

**SurfaceGuard90 is also “GREEN”**

- Environmental Friendly
- No Heavy Metals
- Water Based – No Toxins
- Is Not a Poison
- Does Not Lead to Adaptive Organisms



# SurfaceGuard90 Summary

SurfaceGuard90 delivers proven preventative protection on all substrates.

SurfaceGuard90 water-based technology is safe to use in laundry, as a spray or aerosol

SurfaceGuard90 does not leach, contain heavy metals, triclosan, phenols, or other poisons. It is a green choice for institutional environments

# Application Suggestions

## HOSPITALITY

Facilities, bathrooms, shower curtains, vinyl wall covering, carpets, bedding & ticking, bed linens, bedspreads, computer keyboards, phones, remotes, front desk, conference areas, HVAC, filters, room AC units, ventilation systems, exterior walls, base board & window areas, housekeeping carts and laundry room area

## INSTITUTIONAL & MUNICIPAL

Classrooms, walls, ceilings, floors, desks, chairs, computers, keyboards, phones, audio-visual equipment, wrestling mats, locker rooms, foot gear, helmets, sports equipment, bleachers, facilities, outside walls & sidewalks, HVAC systems, filters, medical centers, food service areas, gyms, arenas, concession stands, vehicles and buses.

## CONSTRUCTION

Hardwood, plywood, drywall window treatments, joists, concrete, masonry, roofing tiles, cedar shakes, carpeting, cupboards, closets, HVAC systems, under sinks and countertops, tub and surround enclosures & backings, wall coverings. Can be applied to painted or treated surfaces that are color safe



## COMMERCIAL & INDUSTRIAL

Keyboards, phones, doors, vending machines, carpets, walls, railings, upholstery, equipment, toilets and restrooms, food service areas, cafeterias, conference rooms, HVAC filters and systems, chairs, cushions, dining areas, reception areas, outdoor lawn equipment, building exteriors, sidewalks, driveways, boats, autos, RV's, camping equipment, trucks,

## HEALTHCARE

Emergency room floors, walls and ceilings, wheelchairs, EMT equipment and vehicles, reception area chairs, desks, tables, upholstery, privacy curtains, beds, rails, call buttons, medical devices and equipment, bed linens, touch points, TV remotes, keyboards, crash carts, gurneys, uniforms, scrubs, housekeeping carts and equipment, and air filters

## FOOD INDUSTRY

Processing equipment, shopping carts, ice machines, trash containers, walls, ceilings, floors, pallets, touch key pads, computer keyboards, transportation carts, refrigerated vans and trucks, transportation vehicles, high touch areas, pass thru doors, coolers, chillers, HVAC systems, filters, clean room walls, floors, ceilings, lab areas, employee break areas, vending machines, phones, intercoms, dining tables, carpets, dumpster areas, high odor areas, sidewalks and entry ways



# SurfaceGuard90 & Mold

EPA Approved to Inhibit and Control Mold, Mildew, Algae and Bacteria

SurfaceGuard90 is extremely effective against mold (mildew) and provides protection long after conventional treatments are no longer effective.

SurfaceGuard90 applied and allowed to dry provides the following benefits;

- Effectively inhibits growth of mold, mildew, algae and bacteria
- Protects against microbial deterioration, discoloration and odor
- Provides an invisible durable microbiostatic protective film
- Continues to provide active protection



SurfaceGuard90 after 2 years of outside exposure

# SurfaceGuard90 on Fabric



## Laundry Formula

### Protective Barrier Last Life of Garment /Fabric Treated

Add SurfaceGuard90 when laundering for long lasting protection against odor and microbes.

Special concentrated formula for laundry is available for manufacturers or household applications. Introduce at “final rinse”.



**Use on bedsheets, towels, blankets, bedspreads, carpets, draperies, mattress pads, shower curtains, upholstery, shoes, clothing and filters.**

EPA registered and approved for fabric treatments

# SurfaceGuard90 Touch-Point and Treatment Rate Table

Treat Rate	Priority	Touch Points
<p>Continuous Touch Treat Every 30 Days</p>	<p>Priority 1 Touch points are high touch areas where contact is made several times per day by numerous people</p>	<ul style="list-style-type: none"> <li>▪ Mobile or Cell Phones</li> <li>▪ Healthcare Cart Handles</li> <li>▪ Computer Keyboard</li> <li>▪ Door Handles</li> <li>▪ Public Wash Rooms</li> <li>▪ Counter Tops</li> <li>▪ Toilet Handles</li> <li>▪ Appliances</li> </ul>
<p>Frequent Touch Treat Every 90 Days</p>	<p>Priority 2 Touch points are areas that are areas that are touched daily</p>	<ul style="list-style-type: none"> <li>▪ Light Switches</li> <li>▪ Stationary Telephone</li> <li>▪ Testing Equipment</li> <li>▪ Buckets &amp; Wringers</li> <li>▪ Tools</li> <li>▪ Patient Bed Rails</li> <li>▪ Wheelchairs &amp; Walkers</li> </ul>
<p>Frequent Touch Treat Annually</p>	<p>Priority 3 Touch points are in areas that are touched weekly</p>	<ul style="list-style-type: none"> <li>▪ Window Treatments</li> <li>▪ Healthcare Cart Internal</li> <li>▪ Shelves &amp; Walls</li> <li>▪ Vacuum Equipment</li> <li>▪ Carpet &amp; Upholstery</li> <li>▪ Storage Areas &amp; Checks</li> </ul>
<p>Rarely Touch Treat Every 3 Years</p>	<p>Priority 4 These touch points are rarely to never touched</p>	<ul style="list-style-type: none"> <li>▪ HVAC Registers - Ducts</li> <li>▪ Enclosed Areas</li> <li>▪ Drywall</li> <li>▪ Wall Hangings</li> <li>▪ Ceiling &amp; Walls</li> <li>▪ Cabinets</li> </ul>

\*\*Every environment is unique so it is important to understand the schedule of reapplying SurfaceGuard90



# SurfaceGuard90

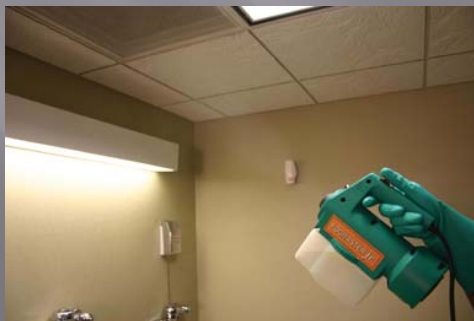


SurfaceGuard90 comes in various packaging and concentrations depending on the size of your job. Packaging ranges from quarts to 55 gallon drums.

Application methods include wiping, spraying, misting or dipping (immersion). Can be applied with cloth rag, sponge, trigger spray head, pump up sprayers and misting machines or in case of fabric protection dipped or immersed in solution.



Coverage per gallon of product (RTU) for treating all surfaces is approximately 2200 to 2500 square feet. Available in a super concentrate for large square footage applications.



For laundry or treating fabrics, use 4oz of concentrated laundry formula per standard load (10-12 lbs) of clothing / fabric. Usually will last life of garment, if odors re-occur simple re-treat.