

**PROTECTIVE INDUSTRIAL POLYMERS MISSION:**  
TO PROVIDE EXCEPTIONAL VALUE-ADDED PRODUCTS,  
SERVICE AND SOLUTIONS, IN JOINT INTEREST WITH OUR  
CONTRACTING CUSTOMER NETWORK, TO COMPLETELY  
SATISFY END-USER INDUSTRIAL SAFETY, PERFORMANCE  
AND REGULATORY COMPLIANCE CONCERNS.



[www.brewspec.com](http://www.brewspec.com)



Antimicrobial Floor & Wall Systems  
for Breweries and Distilleries



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Coatings | Contracting | Consulting







### The World Deep Beneath Your Floors & Walls

Concrete, by its very nature, is a porous material that retains and transmits moisture. Concrete substrates are full of dark, damp crevices and capillaries that make it an ideal breeding ground for a number of microbes, including bacteria, fungi and various molds and spores.

For breweries, distilleries and restaurant processes, this scenario can pose a serious hygienic risk affecting your reputation and bottom line.

Many cleaning and sanitization methods can aid in preventing the growth of microbes at the floor or wall surface level. However, normal or aggressive wear from foot and equipment traffic, abrasion loads, hot water wash downs and abrasive chemical cleaning can cause floor or wall surface damage. Wear, chips, spalls and cracks in your floors and walls are a perfect breeding ground for dangerous microbes. And because common cleaning/washdown techniques cannot penetrate deep into these areas, bacteria can live for extended periods and pose potential health threats. So, how does one achieve a redundant antimicrobial system that can address these concerns?

### Achieving Deep Substrate Antimicrobial Protection

A thin-film floor or wall coating modified with an antimicrobial agent or surface treatment is simply not enough. The key to achieving comprehensive antimicrobial protection is to prevent the growth of microorganisms throughout the floor or wall system and deep within the concrete substrate.

All Protective Industrial Polymers' BrewSpec Floor and Wall Systems utilize an antimicrobial concrete pretreatment (Protect AM-PT/Protect AM-PT-BW) that penetrates beneath the coating system and deep within the concrete substrate. This pretreatment was developed for use where microbe or fungal growth concerns create the need to permanently hydrostatically seal the slab from within. This product penetrates deep into the concrete slab and forms an aqueous, antimicrobial gel. Subsequent antimicrobial joint fillers, coatings and overlays then complete the system.

With BrewSpec Floor and Wall Systems you are achieving multiple, dense layers of antimicrobial protection and a total system that penetrates up to 6" deep into the concrete or block substrate. No other manufacturer's process can even come close to this kind of antimicrobial protection.

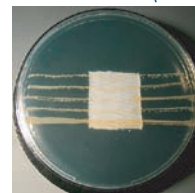
Our antimicrobial additives are integral key ingredients in our products, not merely a surface treatment. All products that make up BrewSpec systems are protected against bacterial and fungal growth. The antimicrobial properties of these products will remain effective for the life of the system, even after repeated washings, sanitizations and decontaminations.

When installed by a Protective Industrial Polymers' recognized installer, you are not only getting the most comprehensive antimicrobial floor or wall system solution, but one that is properly installed and certified. All of our BrewSpec systems are verified by a PIP technical representative and a Certificate of Antimicrobial Concrete Pretreatment is issued.

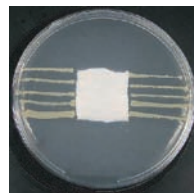
*With today's ever-increasing demand for cleaner, safer processing environments to combat potential health risks and prohibit microbe growth, there lies a need to be protected both now and well into the future. BrewSpec Floor and Wall Systems provide the redundancy your process requires. And that means total peace of mind.*

*\* All PIP antimicrobial products have been thoroughly tested by an independent lab utilizing the test methods below. For more information or testing data, please contact Protective Industrial Polymers at (866) 361-3331.*

#### Antibacterial Test (AATCC I47)



Untreated Sample



Treated Sample

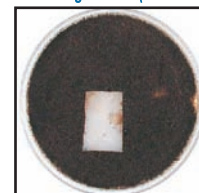
The test is carried out on a Petri plate coated with agar.

The microbiologist prepares the plate by streaking five lines of a liquid solution containing live bacteria across the surface of the agar. At this point the lines look like water. A flooring sample is placed over the live bacteria.

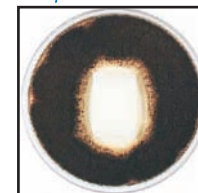
The Petri plate is placed in an incubator, set at 37°C, for 24 hours. Agar provides nourishment for the bacteria. Warmth, moisture and food should encourage the bacteria to spread fast.

The following day, the microbiologist removes the Petri plate and checks whether the bacteria beneath the sample has grown or not.

#### Antifungal Test (AATCC Method 30)



Untreated Sample



Treated Sample

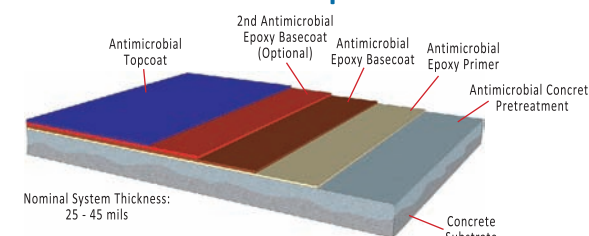
The test for antifungal properties starts out with a Petri plate carrying a layer of stated fungus, containing nutrients that will support fungal growth. The microbiologist places a small piece of the treated flooring sample on its surface.

A solution containing spores of the stated fungus is dropped onto the Petri plate and sample.

The plate is placed in an incubator, set at 28°C, for 7 days. Fungi grow more slowly than bacteria; these conditions encourage optimal growth.

The following week, the microbiologist removes the plate and tests sample.

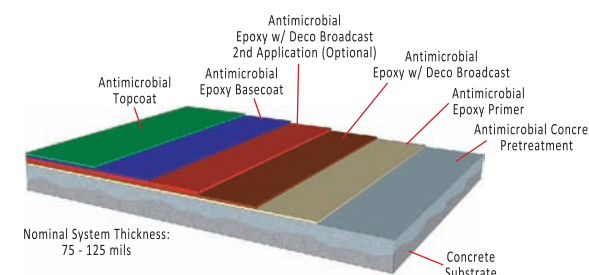
## BrewSpec Antimicrobial Floor & Wall Systems



### BrewSpec TB

#### Antimicrobial Thick-Build Coating System

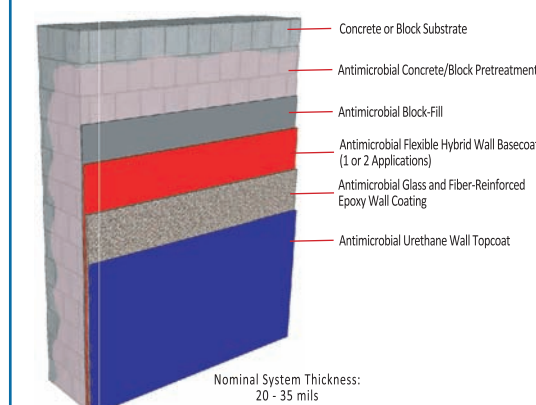
A high-performance antimicrobial coating system formulated for use in areas such as production and packing rooms, walkways and laboratories where overall chemical resistance and light-reflectance are a requirement.



### BrewSpec DS

#### Antimicrobial Decorative System

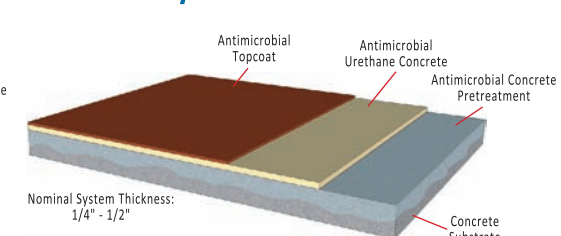
An antimicrobial decorative system designed for areas requiring comprehensive antimicrobial protection combined with durability and aesthetics. Common areas of use include laboratories, corridors, cafeterias and restrooms.



### BrewSpec FiberWall

#### Antimicrobial Glass and Fiber-Reinforced Wall System

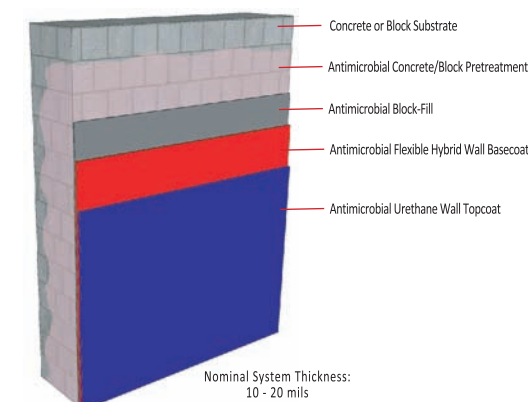
A high-performance, antimicrobial, reinforced epoxy wall system suited for process or packaging areas where enhanced chemical and wear resistance, as well as UV-stability are performance requirements.



### BrewSpec SRM

#### Antimicrobial Shock-Resistant Mortar System

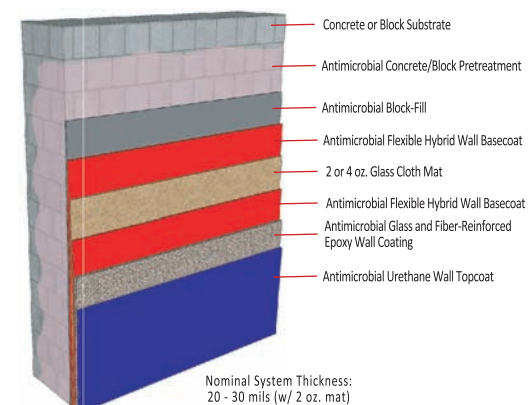
An antimicrobial mortar system designed for use in areas requiring durability, impact resistance and resistance to chemical and thermal-shock. Areas of use include process and storage areas subject to hot and color water wash downs.



### BrewSpec FlexWall

#### Antimicrobial Flexible Wall System

A high-performance, antimicrobial, flexible wall system suited for process or packaging areas where general chemical, impact and thermal-shock resistance are a performance requirement.

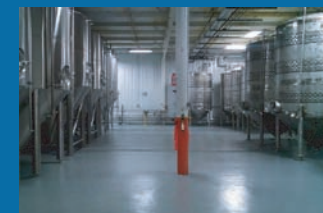


### BrewSpec GlassMat

#### Antimicrobial Glass Cloth-Reinforced Wall System

An antimicrobial glass cloth-reinforced epoxy wall system that features a very smooth, easy-to-wash surface texture. This system is formulated for use in areas where superior chemical resistance, durability and UV-stability are crucial.

## Areas of Use



Fermentation Rooms



Filtering Process Areas



Test Labs & Kitchens



Bottling/Packaging Areas



Warehousing & Storage Areas



Restaurants/Bars

## BrewSpec Floor & Wall Systems Features:

- Protects against microbe growth
- Available in a variety of colors & textures
- Quick turnaround minimizes facility downtime
- Resistance to thermal and chemical shock
- Antimicrobial properties effective for life of floor
- USDA-Compliant/CFIA-Approved
- Easy to clean/sanitize



For detailed product information, technical data and SDS Sheets visit [www.protectpoly.com](http://www.protectpoly.com) or call 1-866-361-3331 to speak with a Protective Industrial Polymers Representative.