



# Antimicrobial Coatings

Spraylat, in its continuing effort to provide innovative products, has developed an Antimicrobial powder coating designed to protect against a broad spectrum of microorganisms that cause odors, discoloration, biofouling and other aesthetic problems on the coating.

These coatings are based on **Antimicrobial AlphaSan<sup>®</sup>** from Milliken Chemical, which is a zirconium phosphate-based ceramic ion-exchange resin containing silver. Silver is well known to be safe for human contact and is effective against bacteria, fungi and algae. It has also been used as a pharmaceutical agent in a variety of forms such as silver nitrate and silver sulphadiazine. These compounds are used in a number of applications such as burn therapy and wound treatment. Silver nitrate is also used as an eye drop to clean a newborn baby's eyes.

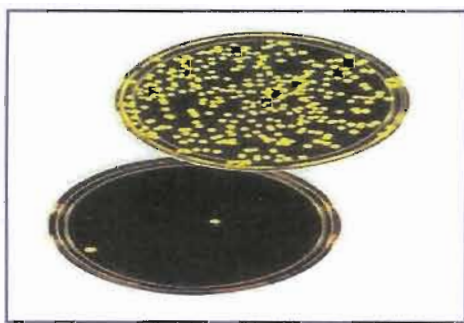
In addition, silver treated materials are implemented in many medical applications to reduce the risk of infection. **Silver's antimicrobial nature has been proven both safe and effective.** AlphaSan<sup>®</sup> is NSF and EPA FIFRA registered for food and drinking water contact and is also FDA approved for food packaging.



Extensive laboratory tests have shown that **Spraylat's Antimicrobial Coatings** are protected from surface degradation by suppressing the growth of microbes and also reducing the number of microbes on the coating surface over time.

**Spraylat's Antimicrobial Coatings** provide non-migratory, long-term antimicrobial efficacy withstanding repeated cleaning and abrasion to coating surfaces. These coatings also have a high temperature stability, color stability and durability while providing the maximum protection against microbes to the coating surface.

Many applications for **Spraylat's Antimicrobial Coatings** might include medical equipment, fitness equipment, appliances, architectural products, farm equipment, hand rails, hospital equipment, water fountains and playground equipment. These coatings come in a wide range of chemistries, both for indoor and outdoor applications, and are offered in a variety of colors in addition to a clear coat.



**Top Slide** - Colonies formed by viable bacteria after exposure to untreated polymer.

**Bottom Slide** - Colonies formed by viable bacteria after exposure to **Alphasan<sup>®</sup>** treated polymer.

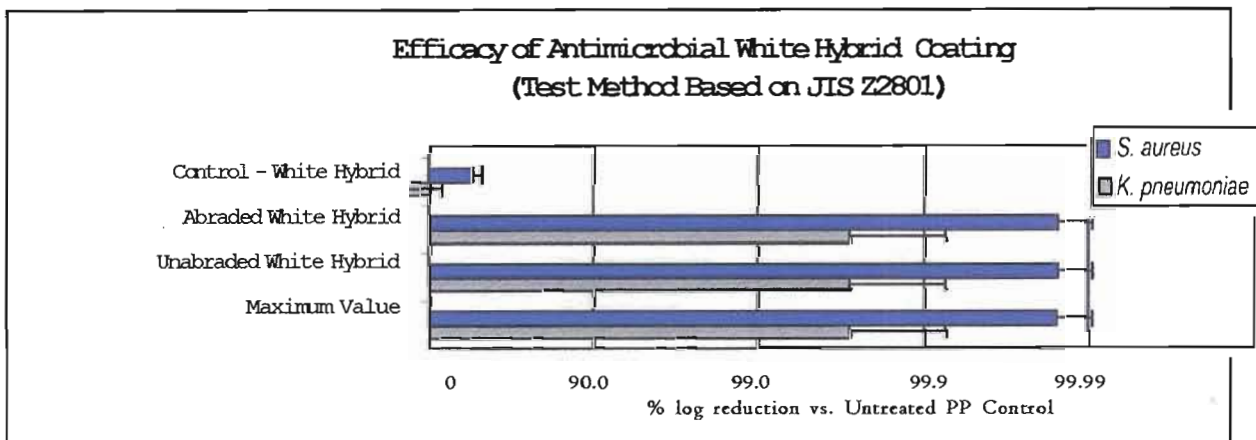
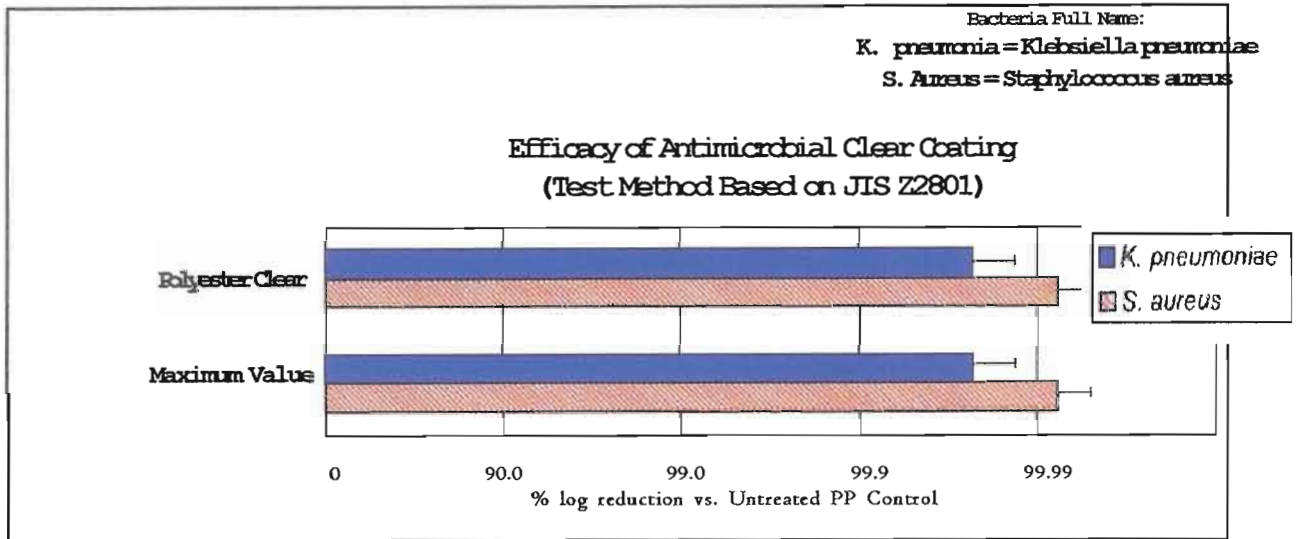
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Powder Coatings

# Antimicrobial Performance



## Advantages:

- Available in all chemistries
- Fully reclaimable
- Excellent exterior durability
- Superior efficacy over a wide range of film thicknesses

The above efficacy data are presented solely to substantiate the antimicrobial activity of this coating for nonpublic health applications. This coating is not currently registered in the U.S.A. for public health applications. According to USEPA guidelines, label claims for products sold in the US are restricted to inhibitory activity against microbes for protection of the coating against aesthetic problems such as discoloration, odor, or other types of product deterioration or spoilage. In addition, label claims cannot include the names of specific microbes or classes of microbes that are directly or indirectly infectious or pathogenic to man or animal.