

# Antimicrobial Powder Coating

Streptococcus



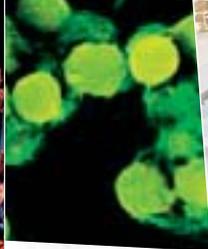
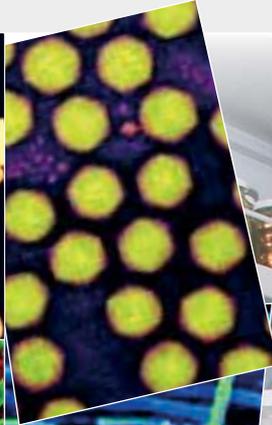
Pseudomonas aeruginosa



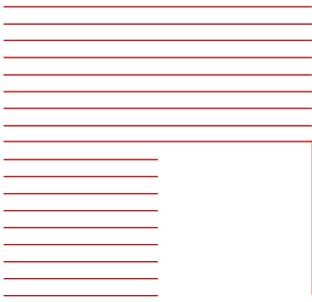
Escherichia coli



Aspergillus niger



Effective protection  
Long-term performance  
Valuable contribution to  
hygiene management

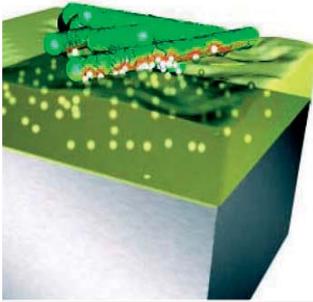


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FOCUS ON CUSTOMER SATISFACTION

# Antimicrobial Powder Coating

## Better protected!



Over recent years there has been increasing public concern over the rise in bacterial infections, particularly with the increasing prevalence of antibiotic resistant strains such as MRSA. Application of more powerful antibiotics is not an option as the bacteria can change their structure to make them ineffective and such concentrated doses can pose a threat to human health. An advanced new powder coating technology is designed to fight destructive microbes.

Silver ions in a 100% inorganic aluminosilicate carrier are released through a unique ion exchange process. Moisture in the air causes a controlled release at a slow, steady rate to provide excellent protection for decades.

### Focus on protection

The active ingredient in the antimicrobial powder coating is the element silver in the form of silver ions. Silver is a natural antimicrobial which has been used for many centuries for its ability to aid in preservation, especially in water systems. The silver ions are added to the surface at the manufacturing stage. This results in an active concentration of silver ions covering the full surface of the blanks.

The antimicrobial powder coating forms part of a second line of defence, with the potential for spreading contamination through manual contact being minimised. We can offer a complete antimicrobial solution which is effective against a wide range of organisms, such as bacteria, mould, fungus, algae and yeast.

### Focus on long-term performance

The long-term performance of the coating will depend to some extent on the cleaning methods, materials and frequency employed in service; but because the inorganic silver is uniformly distributed throughout the coated film, antimicrobial efficacy will continue throughout the life of the powder coating.

### Focus on hygiene management

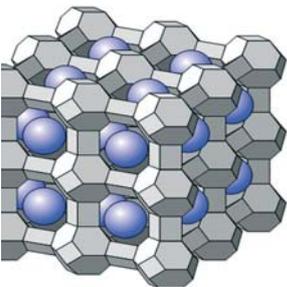
The patented antimicrobial technology is ideal for areas where cleanliness is critical. The protected shelving systems make a valuable contribution to hygiene management. The antimicrobial powder coated shelving systems can be installed in areas that need additional protection against microbes and bacteria, such as hospital patient areas, medical devices, museums, food service & packaging areas or pharmaceutical labs.

#### Some facts:

- Silver-based Antimicrobial
- 100% Inorganic
- Aluminosilicate carrier
- Ag+ is released through ion exchange
- 2-3 µm powder
- Stable to 800°C
- Stable in pH from 3-10,
- Surface area of 600 m<sup>2</sup>/g

### Focus on safety

The antimicrobial powder coating is the only antimicrobial with 2 years chronic toxicity safety data available. It has completed the ISO 10993-1 biocompatibility tests required of a permanent medical implant and is comply with JIS Z 2801: 2000.



  
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