BIOSHIELD TECH
ANTIMICROBIAL

Antimicrobial Testing
Legionella Pneumophila

Stop the Growth of Legionella Pneumophila 33156

Study 3. Reduction of Legionella pneumophila (ATC #33156) on tin coupons with antimicrobial paint coatings. Stainless steel coupons were also included as controls. Experiment was conducted under moist conditions (no drying; t=0 collected immediately upon inoculation).

Treatment	(24 hour) percent reduction	(48 hour) percent reduction
Control Stainless Steel	73 %	67 %
SB Antimicrobial	99.8 %	99.9 %
Silver Bullet AM	99.8 %	99.9 %

Conclusions

After 48 hours of exposure, average reductions of > 5.21-log10 were observed on both the black and silver paint coatings. These reductions were statistically significant (noted by "†" in the table) in comparison to the 2.36-log10 average reduction observed for the stainless steel controls after 48 hours. These correspond to a > 99.9994% reduction in comparison to the control.

An antimicroobial surface coating has the potential to act on bacteria over prolonged periods and faciliateate an ooveerall reduction in bacterial numbers on such surffaces over time, thus reducing the risk of the human exposure.

Tests Conducted By: Kelly R. Bright, Ph.D
Water & Energy Sustainable Tech Center • The University of Arizona • August 19, 2019

HVAC Ductwork

Silver Bullet AM™
HVAC Black Epoxy Coating

Silver Bullet AM™
HVAC White Epoxy Coating

Silver Bullet AM™ 316 Stainless
Steel HVAC Epoxy Coating

Silver Bullet AM™
Clear Epoxy Coating

Prime Solution
5250 / 5253 Primer

Silver Bullet AM™ Clear Acrylic
Antimicrobial Aerosol Paint

BC-4000 Industrial
Metal Cleaner

BC-7000 Heavy Duty
Aluminum Cleaner & Etch