Hawk's Sterlion™ Additive Protects the Surface from Bacterial Growth

In accordance with ISO 22196

BACKGROUND:

To measure the antimicrobial activity on plastics and other non-porous surfaces coated with Hawk Topcoat Systems containing Sterlion* antimicrobial additive, Hawk engaged a third party independent laboratory, Industrial Microbiological Services Ltd., to conduct the ISO 22196 test on IsoFree™ Series Topcoat Systems and GlasTech™ 9000 Series Topcoat Systems.

The standardized test analyzes two types of common bacteria, Staphylococcus aureus (Staph aureus), a gram positive bacteria, and Escherichia coli (E coli), a gram negative bacteria. The test compares a "control" (no Sterlion added) sample, and a "treated sample" (treated with Sterlion) over a 24 hour period, and measures the amount of bacteria on the surface before and after the testing period.

RESULTS:

The chart below indicates that Sterlion antimicrobial additive is 99% effective at reducing E coli bacteria, and 99%+ effective at reducing Staph bacteria on the treated sample for both Topcoat Systems. *Therefore, Sterlion additive is effective at inhibiting the growth of mildew on the coating, prevents discoloration of the coating due to mold, and prevents odor-causing bacteria on the coating.

SAMPLE	BACTERIA SPECIES	CONTACT TIME	CONTACT TIME	REDUCTION Log 10	(INITIAL) %
IsoFree™ Series (Control)	E coli	1.7E+04	1.1E+05		
IsoFree Series (Treated Sample)	E coli	1.7E+04	1.9E+02	1.9	99%
IsoFree Series (Control)	Staph aureus	1.7E+04	4.9E+03		
IsoFree Series (Treated Sample)	Staph aureus	1.7E+04	<11.11	≥ 3.18	99%
GlasTech™ 9000 Series (Control)	E coli	1.6E+04	3.6E+03		
GlasTech 9000 Series (Treated Sample)	E coli	1.6E+04	<11.11	≥ 2.51	99%
GlasTech™ 9000 Series (Control)	Staph aureus	2.2E+04	8.5E+03		
GlasTech 9000 Series (Treated Sample)	Staph aureus	2.2E+04	<11.11	≥ 2.88	99%

Testing Conditions: 24 hours at 35º C under a RH of > 95%

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