



Connfield Floors Inc

Energy Cured Coating Systems
For Sheet Goods, Linoleum, Terrazzo, Rubber, VCT, and LVT

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To All Concern:

The following microbiological analysis report was performed by Biosan Laboratories, Inc. The goal was to determine whether Connfield Floors Inc. energy cured Pro-Shine coating would provide protection from denigration to flooring caused by bacteria when compared to a well-known conventional floor finish used in healthcare environments.

The following are the results of those tests.

Test Samples Submitted

VCT coated with conventional floor finish and Pro-Shine

Test Method

JIS Z 2801:2010, Japanese Industrial Standard Test for Antimicrobial Activity and Efficacy in Antimicrobial Products, was followed. Specifics of the test method applied to this project are described below.

Overview of Test Protocol

This test method is designed to evaluate (quantitatively) the antimicrobial effectiveness of agent(s) incorporated or bound into or onto mainly flat (two dimensional) hydrophobic or polymeric surfaces.

Test Sample Identification

Lab ID		
13097	Sample ID	Pro-Shine
Control	Sample ID	Conventional Floor Finish

Organisms Used

Staphylococcus aureus ATCC #6538f
Escherichia coli ATCC #8739f

Test Protocol Provided by Biosan

Submitted samples were inoculated with 0.4 ml of a 0.2% nutrient broth seeded with a standardized culture of the test organism in triplicate. The inoculated samples were covered with an inert film and incubated at 36 ±2°C in a humidity chamber for 24 hours. Surviving microorganisms were recovered via elution of the broth inoculum from the test sample into neutralizing broth. Microbial counts of the samples were determined and the percent reduction of microorganisms (treated versus untreated samples at time point) was calculated.

Connfield Floors (submitted as Multi-Clean)
Microbiological Analysis Report

Project No: **13097****Results**

Tables 1 and 2 show the microbial resistance test results.

Conclusions

Connfield Floors (submitted as Multi-Clean) sample UV Pro-Shine (submitted as Pro-Shine) showed antimicrobial activity against *Escherichia coli* after 24 hours in the JIS Z 2801 test method with 84.84% reduction and an antimicrobial activity value of 0.82. UV Pro-Shine (submitted as Pro-Shine) showed 94.91% reduction and an antimicrobial activity value of 1.29 against *Staphylococcus aureus* after 24 hours. Percent reduction and antimicrobial activity were calculated against the control at the 24 hour timepoint.

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Microbiologist

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Confield Floors (submitted as Multi-Clean)
Microbiological Analysis Report

 Project No: 13097

Test Method: JIS Z 2801:2010

Table 1. Recovered Organisms from controls at Time= 0 hours

Lab Identification	<i>Escherichia coli</i> ATCC# 8739 cells/cm ²
Control	3.51 x 10 ⁴

Table 2. Recovered Organisms from controls and samples at Time= 24 hours

Lab Identification	<i>Escherichia coli</i> ATCC# 8739 cells/cm ²	% Reduction	Antimicrobial Activity
Control	2.70 x 10 ⁴	n/a	n/a
13097	4.09 x 10 ³	84.84%	0.82

Connfield Floors (submitted as Multi-Clean)
Microbiological Analysis Report

 Project No: **13097**

Lab Identification	<i>Staphylococcus aureus</i> ATCC #6538 cells/cm ²
Control	2.58 x 10 ⁴

Table 2. Recovered Organisms from controls and samples at Time = 24 hours

Lab Identification	<i>Staphylococcus aureus</i> ATCC #6538 cells/cm ²	% Reduction	Antimicrobial Activity
Control	2.51 x 10 ³	<i>nla</i>	<i>nla</i>
13097	1.28 x 10 ²	94.91%	1.29