

VERDURENTM

Hygienic Sustainable Seamless Flooring for Healthcare

Topshield Rx Site Applied Antimicrobial UV Coating

Verduren TopShield Rx is a Site Applied Water-Based UV Coating containing a very active antimicrobial additive. Verduren TopShield Rx is designed as an extremely durable antimicrobial wear layer for high end commercial flooring. Since Verduren TopShield Rx cures instantly with UV light your floor is ready for use with little to no down time. Highly recommended for WOOD, LVT, CORK and CONCRETE flooring.

Primary uses:

Assisted living complexes
Hospitals
Doctor offices
Surgery centers
Clean rooms
Pharmacies
Schools
Detention facilities

Properties:

Water-based
Non-Yellowing
Low Odor
Fast-Dry
Instant-Cured
Extremely-Durable
High Chemical Resistance
Superior Scratch Resistance

Verduren Site Applied UV With Prosan Antimicrobial TESTING AND RESULTS

Summary

Objective: To evaluate Prosan 1050 performance in a UV coating sample.

Laboratory testing established that: As compared to the unpreserved sample "Verduren UV Coating", a sample containing 0.30 weight% Prosan 1050 exhibited at least a 2 log reduction of Staphylococcus aureus and Escherichia coli as required by JIS Z2801 to be passing.



Background, Objective(s):

Verduren has developed a UV coating formulation. They are considering the use of Prosan 1050 to provide resistance to dry film bacterial to this product. Verduren prepared and submitted one unpreserved UV coating sample and requested that we test Prosan1050 in this formulation.

Sample Identification:

SPNO	SPECIMEN
01	Verduren UV Coating

Experimental Methods:

The test sample was analyzed according to the Japanese Standard JIS Z2801 and the Microbiology details are presented below.

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Site Applied Antimicrobial UV Coating

Results:

Dry Film Bacterial Resistance

As compared to unpreserved sample "Verduren UV Coating", a sample containing 0.30 weight% Prosan 1050 exhibited at least a 2 log reduction of Staphylococcus aureus and Escherichia coli as required by JIS Z2801 to be passing.

Conclusions & Recommendations:

Based on the test result, it is suggested that a concentration of 0.30 weight% Prosan 1050 be considered for providing resistance to dry film bacterial growth such that the coating will pass JIS Z2801.

It is suggested that Verduren consult to further discuss the results and discuss additional steps going forward.

Experimental Methods:

Bacteria

Antibacterial Resistance Test: the samples were tested for antibacterial film resistance in accordance with Japanese Standard JISZ2801.

Test Organism:

Escherichia coli (ATCC #8739)
Staphylococcus aureus (ATCC #6538).

TABLE 1
EVALUATION OF PROSAN 1050 IN A UV COATING SAMPLE

FOR RESISTANCE TO DRY FILM BACTERIAL ATTACK

Test Organism: Escherichia coli

SPECIMEN	RECOVERY cfu	JIS LOG B/C
		LOG REDUCTION
Verduren UV COATING -(TIME 0)	6.30E+03	
Verduren UV COATING-(24 HOURS)	3.33E+01	
+ 0.30% PROSAN1050	0.00E+00	>2
+ 0.40% PROSAN1050	0.00E+00	>2
+ 040% PROSAN1050	0.00E+00	>2

Test Organism:

Staphylococcus aureus

Note: Results that are color highlighted above exhibited a reduction in survivors sufficient to pass the Japanese Standard JISZ2801.

A revolution in resilient flooring.