

## Technical Report

### ASTM D3273-94 EVALUATION OF FORTICEL™ MOLD PREVENTION COATING

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### Test Purpose

The purpose of the reported data in this bulletin is to evaluate the efficacy of FortiCel™, a product of Protective Coatings Group, LLC, designed to prevent the promotion of mold growth on construction products including wood, concrete, and sheetrock, using ASTM D3273-94. Material samples were collected and treated with FortiCel™ according to the manufacturer's recommended application rate and then subjected to the testing criteria defined in the appropriate ASTM specification.

### Test Overview

Pieces of CDX Plywood and Dimensional Lumber were cut from normal stock and prepared in a manner consistent with building materials. Each sample was prepared and coated on all sides with the FortiCel™ coating at a rate recommended by the manufacturer and applied using an ALLPRO 300T HVLP sprayer.

The treated samples were then tested according to ASTM D3273, a standard test method for resistance to growth of mold on interior coatings in an environmental chamber. The tests were conducted by EMSL Analytical, Inc. in a controlled test chamber with a temperature of 32.5 +/- 1°C and a humidity of 95% to 98% containing soil inoculated with Aureobasidium pullulans ATCC 9348, Aspergillus niger ATCC 6275 and Penicillium citrinum ATCC 9849.

### Results

After a 4-week incubation period the samples were examined for visible effects of mold growth according to ASTM D-3274 which uses photographic reference standards that provides a numerical rating system from 0 to 10, with 10 indicating a sample totally absent of mold. A rating of 8 indicates a slight amount of growth (less than 10%), 5 indicates moderate growth (30-50%), 3 indicates heavy growth, and a zero rating indicates full coverage of mold growth (greater than 90%).

Results for the evaluation of the submitted samples are shown in the following table:

Sample Label	Results	Scale Rating
FortiCel™	Totally absent of mold	10
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### Conclusion

These results demonstrate that in a standardized test method, as described in the specification of ASTM D3273, FortiCel™ retains its effectiveness in preventing mold growth on treated lumber.