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Antifungal Assessment of Two Wood Varnish Samples

2714401

Two wood varnish samples, one of which was treated with Ultra-Fresh DM-25WP, were received from Decospan on June 30, 2011. At Thomson Research Associates Inc., the samples were tested for resistance to mixed fungal growth using a standard test procedure.

PROCEDURE

Fungal Resistance Test:

1. The surface of the sample was inoculated by swabbing a mixed fungal spore inoculum consisting of equal numbers of spores of the following species:

Aspergillus niger (ATCC #9642)

Aureobasidium pullulans (ATCC #15233)

Chaetomium globosum (ATCC #6205)

Trichoderma virens (ATCC #9645)

Penicillium funiculosum (ATCC #11797)

2. A small petri dish containing a moist untreated sponge was flipped and placed on top of the inoculated surface and a long piece of masking tape was used to secure the dish into place. The sponge in the petri dish was used to provide humidity to the inoculated area.
3. The specimens were incubated at 28C for 28 days, in order to allow adequate time for mature fungal growth to appear.

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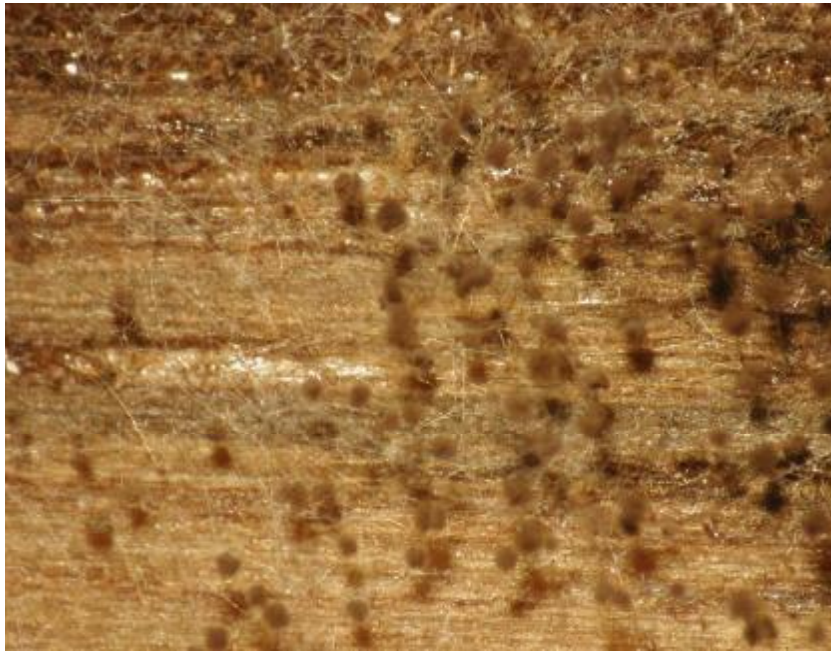
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RESULTS

Sample Description (Abraded With Sandpaper)		ASTM G-21-09			
		7 days	14 days	21 days	28 days
1	No Ultra-Fresh, Bevel wood varnish	2	2	2	2



Notes:

- G 21-09 :
- 0 = specimen remained free of fungal growth.
 - 1 = traces of growth on specimen (less than 10%).
 - 2 = light fungal growth on specimen (10 to 30%).
 - 3 = medium fungal growth on specimen (30 to 60%).
 - 4 = heavy fungal growth on specimen (60% to complete coverage)

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RESULTS

Sample Description (Abraded With Sandpaper)		ASTM G-21-09			
		7 days	14 days	21 days	28 days
2	Ultra-Fresh DM-25WP treated , Bevel wood varnish	0	0	0	0



Notes:

G 21-09 :

- 0 = specimen remained free of fungal growth.
- 1 = traces of growth on specimen (less than 10%).
- 2 = light fungal growth on specimen (10 to 30%).
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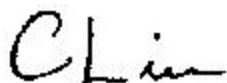
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CONCLUSION

In the modified ASTM G-21-09 Test, sample #2 remained free of mixed fungal growth after 28 days of incubation. Sample #1 supported light amounts of fungal growth.

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