

**Acrovyn® 4000 Fungal Resistance Testing**



August 11, 2010

Mr. L. David Whitmoyer  
 Construction Specialties, Inc.  
 4660 Paradise Road  
 P.O. Box 378  
 Milton, Pennsylvania 17847-0378

**RE: NEW ACROVYN® 4000 FUNGUS TEST SUMMARY**

Dear Mr. Whitmoyer:

Construction Specialties, Inc. contracted Architectural Testing, Inc., an independent test laboratory, to evaluate their New Acrovyn® 4000 product for resistance to fungi in accordance with ASTM G 21-96 (Reapproved 2002), *Standard Practice for Determining Resistance of Synthetic Polymeric Materials to Fungi*. The New Acrovyn® 4000 samples resisted growth of the following five standard fungi: *Aspergillus Niger*, *Penicillium Pinophilum*, *Chaetomium Globosum*, *Gliocladium Virens*, and *Aureobasidium Pullulans*.

Each sample measured nominally 0.075" thick by 2" square. The material tested was beige in color.

All curing, conditioning and testing were performed at standard laboratory conditions. The test specimens were placed on Nutrient Agar and inoculated with a spore suspension containing *Aspergillus Niger* (ATCC No. 9642), *Penicillium pinophilum* (ATCC No. 11797), *Chaetomium globosum* (ATCC No. 6205), *Gliocladium virens* (ATCC No. 9645) and *Aureobasidium pullulans* (ATCC No. 15233). The test specimens were incubated (incubator ICN 004921) at 37°C and not less than 85% relative humidity for a period of 28 days and then observed under 40x magnification for their ability to support fungal growth. All specimens demonstrated resistance to growth while the surrounding agar promoted growth.

**Fungi Resistance**

Fungus Type	Test Specimen	Rating	Observations
Aspergillus Niger	Control	4	Visible growth over surrounding area
	Acrovyn® 4000	0	Did not support fungi growth
Penicillium pinophilum	Control	4	Visible growth over surrounding area
	Acrovyn® 4000	0	Did not support fungi growth
Chaetomium globosum	Control	4	Visible growth over surrounding area
	Acrovyn® 4000	0	Did not support fungi growth
Gliocladium virens	Control	4	Visible growth over surrounding area
	Acrovyn® 4000	0	Did not support fungi growth
Aureobasidium pullulans	Control	4	Visible growth over surrounding area
	Acrovyn® 4000	0	Did not support fungi growth



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**Legend for Growth Ratings**

<b>Observed Growth</b>	<b>Rating</b>
None	0
Traces of Growth (less than 10%)	1
Light Growth (10% to 30%)	2
Medium Growth (30% to 60%)	3
Heavy Growth (60% to complete coverage)	4

Full details of these tests are available in report 92745.02-106-31. If you have any questions regarding this test summary, please feel free to contact me at your convenience.

For ARCHITECTURAL TESTING, INC.

A handwritten signature in black ink that reads "Todd D. Burroughs". Below the signature is a horizontal line and the text "Digitally Signed by: Todd D. Burroughs".

Todd D. Burroughs  
Senior Project Engineer - Components / Materials Testing

TDB:tdb/nlb  
cc: 92745.02