

RAMTECH LABORATORIES
APPENDIX 7-(2)

LABORATORY NUMBER: 3474-13-12 (A) (A)
Issue Date: Pending
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Intertek project number G103105166 dated July 20, 2017 (2 pages)



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1.0 INTRODUCTION

At the request of Ramtech Laboratories, RADCO arranged to have the ASTM G21-15 *Resistance of Synthetic Polymeric Materials to Fungi* test conducted on samples of Plycem Structural Flooring material.

2.0 MATERIAL

The Plycem Structural Flooring product was submitted by Ramtech Laboratories and received at RADCO's Long Beach, California testing facility on May 30, 2017. Three (3) 3 in. x 5 in. (76.2 mm x 127 mm) specimens of the product were submitted to RADCO.

RADCO submitted samples of the Plycem Structural Flooring to Intertek for ASTM G21 testing under work order C3833A.

3.0 ASTM STANDARD G21-15, RESISTANCE OF SYNTHETIC POLYMERIC MATERIALS TO FUNGI

The Resistance of Synthetic Polymeric Materials to Fungi test was conducted by Intertek Testing Services NA, Inc., Columbus, OH (A2LA Accreditation No. 0847.01) under RADCO direction. The Intertek project number G103105166, dated July 20, 2017 is enclosed in the appendix.

Test Method:

Three (3) 2 in. x 2 in. (50.8 mm x 50.8 mm) specimens were exposed to the fungi mentioned in ASTM G21. The specimens were covered and incubated at 28 to 30°C with a relative humidity of 85%, for 28 days.

Test Results:

After an incubation period of 28 days, the Plycem Structural Flooring specimens did not show any signs of fungal growth. The results comply with the standard ASTM G21-15.

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PERFORMANCE TEST REPORT
103105166COL-001

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Client		RADCO, Inc. 3220 E 59th St Long Beach, CA 90805-4502
Project No.		G103105166
Sample	Product	Flooring
	Model	Plycem Structural Flooring
	Identification No.	COL1706061041-001
	Date Received	June 06, 2017
	Condition	New/Good
Production or Prototype		Production
Procedural	Engineer	Nicholas Unger
	Reviewer	Lee Moomaw
	Dates Tested	June 22, 2017 – July 20, 2017
	Report Date	July 20, 2017
Standard	ASTM G21 – 2015 Standard Practice for Determining Resistance of Synthetic Polymeric Materials to Fungi	

Report Parameters			
Organism Species:	<i>Aspergillus brasiliensis</i> (historically <i>Aspergillus niger</i>)		9642
	<i>Penicillium funiculosum</i> (historically <i>Penicillium pinophilum</i>)		11797
	<i>Chaetomium globosum</i>		6205
	<i>Trichoderma virens</i> (historically <i>Gliocadium virens</i>)		9645
	<i>Aureobasidium pullulans</i>		15233
Incubation Period:	June 22, 2017 11:00 – July 20, 2017 11:00		
Sample No:	Plycem Structural Flooring Sample 1	Growth Rating:	0
	Plycem Structural Flooring Sample 2		0
	Plycem Structural Flooring Sample 3		0

Result Interpretation:

Test specimens **Plycem Structural Flooring**, received an average growth rating of **0** meaning there was **No Growth (0%)** on the test specimens at the completion of the fungal resistance evaluation.

This was confirmed with use of a microscope (power 40X and 100X). The effects of growth on physical, optical, or electrical properties were not evaluated.

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Photos:



Figure 1. Plycem Structural Flooring Sample 1 Post Incubation.



Figure 2. Plycem Structural Flooring Sample 2 Post Incubation.



Figure 3. Plycem Structural Flooring Sample 3 Post Incubation.



Figure 4. Control

Test Performed by:

Nicholas Unger
Project Engineer
Columbus Office

Report Approved by:

Lee Moomaw
Project Engineer
Columbus Office