

INTERTEK / ETL SEMKO 3933 US ROUTE 11, CORTLAND, NY 13045

RENDERED TO

TPR²
PO Box 1029
Richmond Hill, GA 31324

ORDER NO. 3079039

TESTED ON June 23, 2005

STANDARDS USED

ASTM E84-04 - Surface Burning Characteristics of Building Materials

TEST

A test method for the comparative behavior of building materials

AUTHORIZATION

Mr. Richard Barone, representing the client, TPR², authorized the test with the signed quotation #17741199.

SPECIMEN DESCRIPTION

The test was performed on a specimen submitted and identified by the client as TPR2 FIRESAFE™ Paint, Part Number IP-10, applied on Cement Board.

An independent organization testing for safety, performance, and certification

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INTRODUCTION

This report describes the results of the ASTM E84-04 Standard Method of Test for Surface Burning Characteristics of Building Materials performed on specimens, submitted by TPR² and previously described.

The specimens were received in good condition, prepared, and test evaluations were conducted at Intertek / ETL SEMKO, Cortland, New York.

The purpose of the method is to determine the relative burning behavior of the material by observing the flame spread along the specimen. Flame spread and smoke density developed are reported; however, there is not necessarily a relationship between these two measurements.

The use of supporting materials on the underside of the test specimen may lower the flame spread index from that which might be obtained if the specimen could be tested without such support. This method may not be appropriate for obtaining comparative surface burning behavior of some cellular plastic materials. Testing of materials that melt, drip, or delaminate to such a degree that the continuity of the flame front is destroyed, results in low flame spread indices that do not relate directly to indices obtained by testing materials that remain in place.

TEST OBJECTIVE

The ASTM E84-04 test method is intended to compare the surface flamespread and smoke developed measurements to those obtained from the tests of mineral fiber cement board and select grade red oak flooring. The test specimen surface is exposed to a fire exposure during the 10 minute test duration, while flamespread over its surface and density of the resulting smoke are measured and recorded. Test results are presented as the computed comparisons to the standard calibration materials. The mineral fiber cement board forms the zero point, while the red oak flooring is set as 100 for smoke measurements. Thus, with a relative zero established by the non-combustible cement board, all test specimens are compared to select grade red oak flooring, and the results expressed as Flame Spread Index and Smoke Developed Index.

TEST PROCEDURE

The test specimen, previously described, as tested in accordance with the procedures as outlined in ASTM E84-04.

TEST RESULTS

The test results, computed on the basis of observed flame front advance and smoke density measurements, are presented in the following table. In recognition of possible variations and limitations of the test method, the results are computed to the nearest number divisible by five, as outlined in the test method.

Client: TPR²
Order No.: 3079039
Test No.: 1

Date Received: June 16, 2005
Date Tested: June 23, 2005
Technician: Brian Connor

SPECIMEN DESCRIPTION: TPR2 FIRESAFE™ Paint, Part Number IP-10, applied on

Cement Board.

PLEASE SEE APPENDIX A FOR RESULTS.

CONCLUSION

The specimen, submitted by TPR², and previously described asTPR2 FIRESAFE™ Paint, Part Number IP-10, applied on Cement Board, when tested in accordance with ASTM E84-04 Standard Test Method for Surface Burning Characteristics of Building Materials on June 23, 2005, achieved the following results:

Flame Spread Index	0
Smoke Index	0

Test Conducted by:

Brian Connor Technician

Cabling Products Testing Group

Reviewed and Approved by:

James Tanner Operations Manager

James Tanner

Cabling Products Testing Group

Attachment: Appendix A

APPENDIX A (3 Pages)

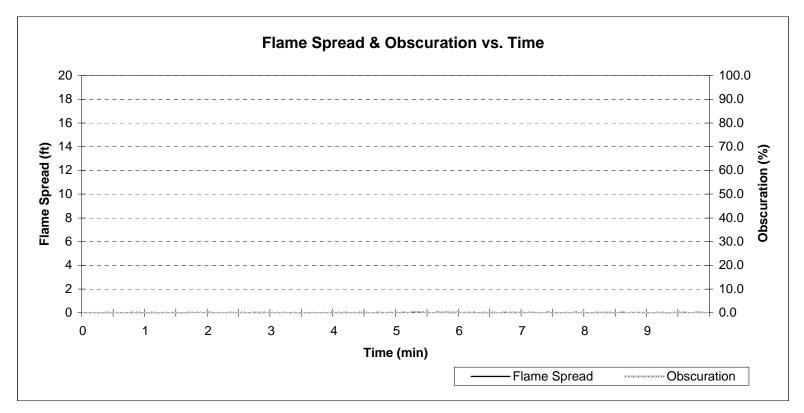
INTERTEK / ETL SEMKO

DATA SHEET STANDARD ASTM E84-03a

Standard Method for Surface Burning Characteristics of Building Materials

CLIENT:	T P R ² 3079039		DATE:	2005/06/16		
Project No.			File No.	3079039 1		
TEST NO.:	1		-			
DESCRIPTION:		TPR2 FIRES	AFE™ PAINT, Pa	rt Number IP-10		
Thickness (in):	0.007		Length of individ		4	
No. of sections:	6		Total length of sa	ample (ft):	24	
Falling glowing e Flaming drips (m Flaming on the fl	sec): e floor (min:sec): embers (min:sec): nin:sec):	none 0 N/A N/A N/A N/A	• • • •	From end of flame Ash Length (ft): Char Length (ft): Melt Length (ft): Discoloration (ft):	0 0 0 0 0 19.5	
MOUNTING (ma	ark box with "X"):					
Self Supporting	g:	Wire & Rods:		Sheetrock		
NOTES:				Cementboard	Х	
STARTING TEMPS.:				LABORATORY C	ONDITIONS:	
82	_°F TC. EXPOSED (23 ft)		69	°F (DRY BULB)	
106	_°F TC. BURIED (13	ft)		49	% RH	
DRAFT CONTE	ROLLER:			0.010	IN. WC PRESS.	
0.110	_IN. WC DRAFT IND	D.		BURNOUT:[]		
270	_Fuel Flow Rate					
TECH:	Brian Co	nnor	READER:	Don P	Pendell	

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Parameter Max. Flame Spread (ft): Flame Spread Index: Smoke Index:	Rounded (Index) 0.0 0 0	<u>Unrounded</u> N/A 0.00 1.62			Date: Time: File: Test #:	2005/06/16 08:56:07.5 3079039	1
Flame Spread Area (min*ft): Smoke Area (min*%):	0.00 1.15	Smoke Area - Red Oak Time to Max. Flame Spr	` '	71 0:00]		_
Job No.: 3079039 Description :	TPR2 FIRESAFE™ PAINT, Part Number IP-10		Client:	Т	PR2	_	
TECH.: Brian Co	H.: Brian Connor		READER:		endell		

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