CERTIFICATE OF COMPLIANCE

Certificate Number	20190319-R4616
Report Reference	R4616-19740508
Issue Date	2019-MARCH-19

Issued to: Koroseal Interior Products L L C
7929 National Turnpike
Louisville KY 40214

This certificate confirms that representative samples of WALL COVERINGS
A fabric backed vinyl wall covering material designated "Type I-G".

Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.

Standard(s) for Safety: UL 723 - Test for Surface Burning Characteristics of Building Materials

Additional Information: See the UL Online Certifications Directory at https://iq.ulprospector.com for additional information.

This *Certificate of Compliance* does not provide authorization to apply the UL Mark. Only the UL Follow-Up Services Procedure provides authorization to apply the UL Mark.

Only those products bearing the UL Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Certification Mark on the product.

Bruce Mahrenholz, Director North American Certification Program

UL LLC

UNDERWRITERS LABORATORIES INC.
NORTHBROOK, IL · MELVILLE, NY · SANTA CLARA, CA · TAMPA, FL ®

an independent, not-for-profit organization testing for public safety

File R4616
Project 82NK11457

August 2, 1982

REPORT

on

WALL COVERINGS

The B. F. Goodrich Company
Marietta, Ohio

D E S C R I P T I O N

PRODUCTS COVERED:

Vinyl laminated fabric wall covering materials as applied to asbestos-cement board.

USE:

The products are intended for use as building materials as permitted by the authorities having jurisdiction.

NGS/KR:ccj

T E S T R E C O R D N O. 1

EXAMINATION OF MATERIALS:

The materials used in this investigation were produced under the observation of a representative of Underwriters Laboratories Inc. in a ready-to-use form. The composition of the finished materials is of a proprietary nature and the formulas involved are on file at the Laboratories for use in the Follow-Up Service Program.

Various chemical and physical tests were conducted on the finished materials and the components. The results developed from these tests were employed in establishing specifications for use in the Follow-Up Service Program.

The Classification Marking of Underwriters Laboratories Inc. for "Asbestos-Cement Board" with flame spread, fuel contributed, and smoke-developed factors of zero was in evidence on the asbestos-cement board substrate material.

SURFACE BURNING CHARACTERISTICS TESTS:

SAMPLES

The samples consited of two constructions of vinyl laminated fabric wall coverings, bonded to 1/4 in. thick asbestos-cement boards. For the purpose of this Report, the samples have been identified as "Type I-G" and "Type I-H."

Each test sample consited of three 8 ft long by 24 in. wide sections of the wall covering adhered to the asbestos-cement board. In each test a piece of 1 ft long by 22 in. wide by 1/16 in. thick uncoated steel plate was placed at the fire end of the tunnel furnace "upstream" from the gas burners to complete the 25 ft chamber length.

In some cases, the samples were tested with a longitudinal slit in the wall covering.

METHOD

The tests were conducted in accordance with the Standard of Underwriters Laboratories Inc., Tests for Surface Burning Characteristics of Building Materials, UL 723.

RESULTS

Data on flame spread, fuel contributed, and smoke developed appears in the following tabulations.

Flame Spread

The maximum distance the flame spreads along the length of the sample from the end of the igniting flame is determined by observation.

The Flame Spread Classification of the material is derived by determining the area under the flame spread distance (ft) versus time (min) curve, ignoring any flame front recession, and using one of the calculation methods described below.

1. If the total area (A_T) is less than or equal to 97.5 min/ft (meter-min by 3.3), the Flame Spread Classification shall be 0.515 times the total area, (FSC = 0.515 A_T).

2. If the total area (A_T) is greater than 97.5 min/ft (meter-min by 3.3), the Flame Spread Classification is to be 4900 divided by 195 minus the total area, (FSC = 4900/195-A_T).

Test No.	Material	Maximum Flame Spread (Ft)	Time Of Maximum Flame Spread (Min:Sec)	Calculated Value For Flame Spread
1	Type I-G, slit	2.5	1:58	10.9
2	Type I-G, unslit	3.0	2:51	12.4
3	Type I-G, unslit	3.5	2:11	15.2
4	Type I-H, unslit	2.0	5:53	7.8
5	Type I-H slit	1.5	3:54	6.4
6	Type I-H unslit	2.0	3:41	8.4

Fuel Contributed

A time-temperature curve is developed by plotting the temperatures measured by a thermocouple located at the 23 ft point (vent end) in the furnace against time. The calculated value for fuel contributed Classification is derived by expressing the net area under the curve for untreated red oak and asbestos-cement board.

Test No.	Material	Calculated Value For Fuel Contributed
1	Type I-G	0
2	Type I-G	0
3	Type I-G	0
4	Type I-H	0
5	Type I-H	0
6	Type I-H	0

Smoke Developed

The smoke developed during the test is indicated by the output of a photoelectric circuit operating across the furnace flue pipe. A curve is developed by plotting values of light absorption (decrease in cell output) against time. The calculated value for smoke developed Classification is derived by expressing the net area under the curve for this material at the percentage of the net area under the curve for untreated red oak.

Test No.	Material	Calculated Value For Smoke Developed
1	Type I-G	8.9
2	Type I-G	6.4
3	Type I-G	6.6
4	Type I-H	1.0
5	Type I-H	0.3
6	Type I-H	1.0

NGS

C O N C L U S I O N

SURFACE BURNING CHARACTERISTICS CLASSIFICATIONS:

Based on the above test results, it is the judgement of Underwriters Laboratories Inc. that the following Classifications are appropriate for the produces submitted:

SURFACE BURNING CHARACTERISTICS

	Applied to Asbestos-Cement Board	
	Type I-G	Type I-H
FLAME SPREAD	15	10
FUEL CONTRIBUTED	0	0
SMOKE DEVELOPED	5	0

FOLLOW-UP PROGRAM:

The products covered by this Report will be placed under the Follow-Up Service of Underwriters Laboratories Inc.

The Classification Marking of Underwriters Laboratories Inc. attached to the products will be the only evidence that such products have been produced under the Follow-Up Service Program. Such Classification Marking will bear the following information.

UNDERWRITERS LABORATORIES INC. (R)

CLASSIFIED

WALL COVERINGS

SURFACE BURNING CHARACTERISTICS

In addition, one of the following Classifications:

	Applied to Asbestos-Cement Board+	
	Type I-G	Type I-H
FLAME SPREAD	15	10
FUEL CONTRIBUTED	0	0
SMOKE DEVELOPED	5	0

+ - Applied with manufacturer's "A-848-B" adhesive in accordance with the application instructions provided with the adhesive.

Report by:

Nestor G. Sanchez

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Reviewed by:

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