



TEST REPORT

OMEGA POINT
LABORATORIES, INC.
16015 Shady Falls Road
Elmendorf, TX 78112
(V) 210-635-8100
(F) 210-635-8101
800-966-5253
www.opl.com

ASTM E84-04

SURFACE BURNING CHARACTERISTICS OF BUILDING MATERIALS

Report No. 17212 - 124382

Rust Bullet Rust Inhibitive Coating

April 27, 2005

Prepared for:
Rust Bullet, LLC
300 Brinkby Avenue
Suite 200
Reno, NV 89509



ABSTRACT

Test Specimen: **Rust Bullet Rust Inhibitive Coating**

Test Standard: **ASTM E84-04**

Test Date: **April 14, 2005**

Test Sponsor: **Rust Bullet, LLC**

Test Results:

FLAME SPREAD INDEX	=	0
SMOKE DEVELOPED INDEX	=	5
	=	

124382

This report and the information contained herein is for the exclusive use of the client named herein. Omega Point Laboratories, Inc. authorizes the client to reproduce this report only if reproduced in its entirety. The description of the test procedure, as well as the observations and results obtained, contained herein are true and accurate within the limits of sound engineering practice. These results apply only for the specimens tested, in the manner tested, and may not represent the performance of other specimens from the same or other production lots nor of the performance when used in combination with other materials. The test specimen identification is as provided by the client and Omega Point Laboratories, Inc. accepts no responsibility for any inaccuracies therein. Omega Point did not select the specimen and has not verified the composition, manufacturing techniques or quality assurance procedures, unless specifically noted in the body of the report. This report does not imply certification of the product by Omega Point Laboratories, Inc. Any use of the Omega Point Laboratories name, any abbreviation thereof or any logo, mark, or symbol therefor, for advertising material must be approved in writing in advance by Omega Point Laboratories, Inc. The client must have entered into and be actively participating in a Listing & Follow-up Service program. Products must bear labels with the Omega Point Laboratories Certification Mark to demonstrate acceptance by Omega Point Laboratories, Inc. into the Listing program.



Eric G. Hutchinson
E84 Operator

April 27, 2005

Reviewed and approved:



William E Fitch PE No. 55296

April 27, 2005



II PURPOSE

I INTRODUCTION

This report describes the results of the ASTM E84-04 Standard Test Method for SURFACE BURNING CHARACTERISTICS OF BUILDING MATERIALS , a method for determining the comparative surface burning behavior of building materials. This test is applicable to exposed surfaces, such as ceilings or walls, provided that the material or assembly of materials, by its own structural quality or the manner in which it is tested and intended for use, is capable of supporting itself in position or being supported during the test period.

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.”

This test method is also published under the following designations:

ANSI 2.5
NFPA 255
UBC 8-1 (42-1)
UL 723

This standard should be used to measure and describe the properties of materials, products, or assemblies in response to heat and flame under controlled laboratory conditions and should not be used to describe or appraise the fire hazard or fire risk of materials, products, or assemblies under actual fire conditions. However, results of this test may be used as elements of a fire risk assessment which takes into account all of the factors which are pertinent to an assessment of the fire hazard of a particular end use.





TEST REPORT

OMEGA POINT
LABORATORIES, INC.
16015 Shady Falls Road
Elmendorf, TX 78112
(V) 210-635-8100
(F) 210-635-8101
800-966-5253
www.opl.com

ASTM E84-04

SURFACE BURNING CHARACTERISTICS OF BUILDING MATERIALS

Report No. 17212 - 124382

Rust Bullet Rust Inhibitive Coating

April 27, 2005

Prepared for:
Rust Bullet, LLC
300 Brinkby Avenue
Suite 200
Reno, NV 89509



IV TEST PROCEDURE

The tests were conducted in accordance with the procedures outlined in the American Society for Testing and Materials ASTM E84-04. The self-supporting specimens were placed directly on the tunnel ledges. After the tests, the samples were removed from the tunnel, examined and disposed of.

The test was conducted on 4/14/2005, and not witnessed by any third parties.

V TEST RESULTS

The test results, computed on the basis of observed flame front advance and electronic 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 for smoke developed index results greater than 200 the calculated value is rounded to the nearest 50 points.

While no longer a part of this standard test method, the Fuel Contributed Value has been computed, and may be found on the computer printout sheet in the Appendix.

Test Specimen	Flame Spread Index	Smoke Developed Index
Mineral Fiber Cement Board	0	0
Red Oak Flooring	100	90
Rust Bullet Rust Inhibitive Coating	0	5

The data sheets are included in the Appendix. These sheets are actual print-outs of the computerized data system which monitors the ASTM E84-04 apparatus, and contain all calibration and specimen data needed to calculate the test results.



VI OBSERVATIONS

During the test, the specimen was observed to behave in the following manner: The Rust Inhibitive Coating began to blister at 1:02 (min:sec.). The coating began to char at 2:12 (min:sec.). The test continued for the 10:00 duration.

After the test the specimen was observed to be damaged as follows:
The coating was charred from 0-ft. - 10-ft., and blistered from 0-ft. - 12-ft. Light discoloration was observed to the coating from 13-ft. - 24-ft.



APPENDIX

ASTM E84-04 Data Sheets



ASTM E84 DATASHEETS

Client: RUST BULLET, LLC

Date: 4/14/05

Time: 03:33 PM

Test Number: 4

Project Number: 17212-124382

Operator: EH/TA

Specimen ID: "RUST BULLET RUST INHIBITIVE COATING, METALLIC PIGMENTED COATING." THE SPECIMEN WAS SELF SUPPORTING.

TEST RESULTS

FLAMESPREAD INDEX: 0

SMOKE DEVELOPED INDEX: 5

SPECIMEN DATA . . .

Time to Ignition (sec): 0

Time to Max FS (sec): 44

Maximum FS (feet): 0.0

Time to 980 °F (sec): Never Reached

Max Temperature (°F): 567

Time to Max Temperature (sec): 591

Total Fuel Burned (cubic feet): 51.08

FS*Time Area (ft*min): 0.1

Smoke Area (%A*min): 5.9

Fuel Area (°F*min): 5096.9

Fuel Contributed Value: 6

Unrounded FSI: 0.1

CALIBRATION DATA . . .

Time to Ignition of Last Red Oak (sec): 37

Red Oak Smoke Area (%A*min): 90.00

Red Oak Fuel Area (°F*min): 8553

Glass Fiber Board Fuel Area (°F*min): 4885

