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EVALUATION CENTER
Intertek
8431 Murphy Drive
Middleton, WI 53562

RENDERED TO
CONTEGO INTERNATIONAL, INC.
P.O. BOX 49
ROCHESTER, IN 46975

PRODUCT EVALUATED: Contego Fire Barrier Latex Primer
EVALUATION PROPERTY: Air Infiltration

Report of Testing Contego Fire Barrier Latex Primer to the following criteria: ASTM E283-04 "Standard Test Method for Determining Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen"

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2 Introduction

Intertek has conducted R&D testing for Contego International, Inc. on Contego Fire Barrier Latex Primer to evaluate air infiltration. Testing was conducted following the standard methods of ASTM E283-04 *Standard Test Method for Determining Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen*. This evaluation began October 23, 2008 and was completed October 27, 2008.

3 Test Samples

3.1. SAMPLE SELECTION

Samples were submitted to Intertek directly from the client. Samples were not independently selected for testing. Samples were received at the Evaluation Center on October 22, 2008.

3.2. SAMPLE AND ASSEMBLY DESCRIPTION

The sample under evaluation consisted of a nominal 2" by 4" wood frame with overall dimensions of 40" by 40". The framing was sheathed with ½" thick Knight Celotex Low Density Fiberboard. The assembly was then coated with Contego Fire Barrier Latex Primer according to the manufacturer's instructions. The application was with a roller. The first coat was applied in approximately a 6 mil wet thickness, and allowed to dry. The second coat was applied in approximately an 8 mil wet thickness, and allowed to dry for 24 hours. The third (finish) coat was applied in approximately an 8 mil thickness and allowed to dry. No other information regarding the coating material was supplied by the client.

4 Testing and Evaluation Methods

4.1. TEST STANDARD 1

Air Infiltration per ASTM E283-04 *Standard Test Method for Determining Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen*.

Test pressure of 1.57 PSF. Tests were conducted prior to application of coating, to determine leakage rate of sample uncoated, and was then tested after application of coating. Metered area was 37" by 37" (9.51 ft²).

5 Testing and Evaluation Results

5.1. RESULTS AND OBSERVATIONS

AIR INFILTRATION:

Sample Area: 9.51 ft²

Test Number:	1 (Pre-application)	2 (Post-application)
Test Pressure (PSF):	1.57	1.57
Sample Leakage (SCFM):	3.41	0.16
Leakage per Square Foot Sample Area (SCFM/ft ²):	0.36	0.02

5.1.1. Statement of Measurement Uncertainty

All measurements were taken with 95% confidence level. Pressure measurements were taken with an inclined manometer (WHI #138) with an accuracy of +/- 0.01" w.c. Air flow measurements were taken with a laminar flow element (WHI #141) with an accuracy of +/- 1% of reading.

6 Conclusion

The sample under evaluation had an air infiltration rate of 0.36 SCFM per square foot of sample area (prior to coating application) when tested in accordance with ASTM E283 at a test pressure of 1.57 PSF.

The sample under evaluation had an air infiltration rate of 0.02 SCFM per square foot of sample area (after coating application as specified above) when tested in accordance with ASTM E283 at a test pressure of 1.57 PSF.

The conclusions of this test report may not be used as part of the requirements for Intertek product certification. Authority to Mark must be issued for a product to become certified.

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Reported by: 
Russ Burt
Senior Associate Engineer

Reviewed by: 
Jim Turgeson
Project Manager