

UL Evaluation Report



UL ER26533-01

Issued: September 26, 2013

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UL Category Code: ULEX

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DIVISION: 07 00 00 – THERMAL AND MOISTURE PROTECTION
Sub-level 2: 07 20 00 – Thermal Protection
Sub-level 2: 07 80 00 – Fire and Smoke Protection (Annular Space Protection)

COMPANY:

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1. SUBJECT:

OWENS CORNING ENERGYCOMPLETE® SEALANT

2. SCOPE OF EVALUATION

- 2012, 2009 *International Building Code*®
- 2012, 2009 *International Residential Code*® (IRC)

The products were evaluated for the following properties:

- Surface Burning Characteristics (ANSI/UL723, ASTM E84)
- Annular space protection (ASTM E814 – Modified Version)
- Foam Plastic - Special Approval (NFPA 286)

3. REFERENCED DOCUMENTS

- ANSI/UL723 (ASTM E84), Test for Surface Burning Characteristics of Building Materials
- ASTM E814, Standard Test Method for Fire Tests of Penetration Firestop Systems (Modified)
- NFPA 286, Standard Methods of Fire Tests for Evaluating Contribution of Wall and Ceiling Interior Finish to Room Fire Growth
- ICC-ES Acceptance Criteria for Quality Documentation, AC10

4. USES

EnergyComplete[®] Spray Sealant is a latex-based, flexible foam sealant for use as an alternative to the methods prescribed by the code for maintaining the integrity of penetrations of fireblocking.

The sealant with a density exceeding the specified maximum of 2.0 pcf (32 kg/m³) is permitted as an alternative to IBC Section 2603.4.1.13 for Type V-B construction and IRC Section R316.5.11 when installed in 1 ½ -inch-wide-by 1/8-inch-thick (38 mm by 3.2 mm) strips, as a minimum.

The sealant is used:

- To fill cracks and voids in building construction and annular spaces created by penetration of wood fireblocking around pipes and conduits
- On sill plates and headers of Type V construction as prescribed in IBC Section 2603.4.1.13 and IRC Section R316.5.11 and
- Seal cracks and openings in walls without being covered by a thermal barrier

5. PRODUCT DESCRIPTION

EnergyComplete[®] Spray Sealant is a two-part, latex-based sealant that expands to take the shape of cracks and voids. The two parts (Side A and Side B) are packaged in separate containers.

The sealant has a flame-spread index of 25 or less and a smoke-developed index of 450 or less when tested in accordance with ANSI/UL 723 (ASTM E84), as applied in two 1.5 in wide and 0.125 inch thick strips spaced 8 in. on-center, covering 16.7 percent of the exposed test sample area.

The sealant has been tested in accordance with a modified version of ASTM E814 to establish that the integrity of the fireblocking is maintained when the fireblocking is penetrated.

The sealant has also been tested exposed in a room corner configuration in general accordance with NFPA 286 to demonstrate its use without being covered by a thermal barrier. The sealant was applied to the walls and the wall-ceiling intersection at limited coverage to simulate its use as a sealant for cracks and openings in walls.

6. INSTALLATION

Installation of the foam sealant shall comply with this report and the manufacturer's published installation instructions. The installation instructions are to be available at the jobsite during installation.

When used to fill the annular space in wood fireblocking, the sealant shall be installed under the following conditions:

- The sealant shall completely fill the annular space around the penetrations for the full depth of the penetrated framing member.
- The maximum width of the annular space to be sealed shall not exceed 1-7/16 in.

When used to seal openings and cracks in walls, without the sealant being covered by a thermal barrier, the following conditions apply:

- The maximum width of any exposed sealant strip shall not exceed 1-7/16 in.
- The maximum area of exposed sealant shall not exceed 24 in² per ft² of wall area.

7. CONDITIONS OF USE

EnergyComplete[®] Spray sealant described in this report complies with, or is a suitable alternative to what is specified in, those codes listed in Section 2 of this report, subject to the following conditions:

- 7.1** Materials and methods of installation shall comply with this report and the manufacturer's published installation instructions. In the event of a conflict between the installation instructions and this report, this report governs.
- 7.2** The sealant shall not be used in applications where exposed to sunlight or weather.
- 7.3** A thermal barrier is not required when installed in accordance with Section 6.
- 7.4** Use of the sealant is limited to Type V-B construction under the IBC and to construction permitted under the IRC.
- 7.5** EnergyComplete[®] Spray sealant is manufactured in Fleetwood, PA under the UL LLC Classification and Follow-Up Service Program, which includes audits in accordance with ICC-ES Acceptance Criteria for Quality Documentation, AC10.

8. SUPPORTING EVIDENCE

- 8.1** Manufacturer's descriptive product literature.
- 8.2** UL test reports and Classification in accordance with ANSI/UL 723 (ASTM E84). See UL Product Certification Category for Caulking and Sealants ([BLIS](#)).
- 8.3** Report of comparative testing in accordance with a currently accepted, modified version of ASTM E814. Method and criteria of acceptance is on file at UL.
- 8.4** Report of testing in accordance with NFPA 286 on the foam sealant applied to the walls and the wall-ceiling intersection at limited coverage to simulate its use as a sealant for cracks and openings in walls.
- 8.5** Quality Documentation in accordance with ICC-ES Acceptance Criteria for Quality Documentation, AC10.

9. IDENTIFICATION

EnergyComplete[®] Spray Sealant described in this evaluation report are identified by a marking bearing the report holder's name (Owens Corning), the plant identification, the UL Classification Mark, and the evaluation report number UL ER26533-01. The validity of the evaluation report is contingent upon this identification appearing on the product.

10. USE OF UL EVALUATION REPORT

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- 10.2 UL Evaluation Reports shall not be used in any manner that implies an endorsement of the product, material or system by UL.
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