ICC-ES Evaluation Report

ESR-1961

Reissued June 1, 2009

This report is subject to re-examination in one year.

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DIVISION: 07—THERMAL AND MOISTURE PROTECTION
Section: 07210—Building Insulation
Section: 07845—Annular Space Protection

REPORT HOLDER:

THE DOW CHEMICAL COMPANY
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EVALUATION SUBJECT:

GREAT STUFF™ GAPS & CRACKS, GREAT STUFF™ FIREBLOCK, GREAT STUFF™ WINDOW & DOOR, GREAT STUFF™ BIG GAP FILLER, GREAT STUFF™ PRO GAPS & CRACKS, GREAT STUFF™ PRO FIREBLOCK, GREAT STUFF™ PRO WINDOW & DOOR, GREAT STUFF™ 10/16 POUND, INSTA-SEAL™ 10/16 POUND AND ENERFOAM™

1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2006 *International Building Code*® (IBC)
- 2006 *International Residential Code*® (IRC)

Properties evaluated:

- Surface-burning characteristics
- Annular space protection

2.0 USES

Great Stuff™ Gaps & Cracks, Great Stuff™ Fireblock, Great Stuff™ Window & Door, Great Stuff™ Big Gap Filler, Great Stuff™ Pro Gaps & Cracks, Great Stuff™ Pro Fireblock, Great Stuff™ Pro Window & Door, Great Stuff™ 10/16 Pound, Insta-Seal™ 10/16 Pound and Enerfoam™ are aerosol foam plastic sealants used to fill cracks and voids in construction and the annular space created by the penetration of wood fireblocking by pipes and conduits. The foam plastic sealant is recognized for use as an alternative to the methods prescribed by the code for maintaining the integrity of penetrations of fireblocking.

3.0 DESCRIPTION

3.1 General:

The foam plastic products described in this report are single-component, polyurethane foam sealants that expand to take the shape of cracks and voids. The foam sealant has a flame-spread index of less than 25 and a smoke-developed index of less than 450 when tested in accordance with ASTM E 84. The packaging consists of a straw, gun or cylinder foam delivery configuration. The foam has been tested in accordance with ASTM E 814 (modified) to establish that the integrity of the fireblocking is maintained when the fireblocking is penetrated.

3.2 Great Stuff™ Gaps & Cracks and Great Stuff™ Fireblock:

A minimally expanding foam plastic sealant. It is provided in aerosol cans.

3.3 Great Stuff™ Window & Door:

A low-pressure-build, expanding foam plastic sealant. It is provided in aerosol cans.

3.4 Great Stuff™ Big Gap Filler:

A triple expanding foam plastic sealant. It is provided in aerosol cans.

3.5 Great Stuff™ Pro Gaps & Cracks and Great Stuff™ Pro Fireblock:

A minimally expanding foam plastic sealant. It is provided in aerosol cans.

3.6 Great Stuff™ Pro Window & Door:

A low-pressure-build, minimally expanding foam plastic sealant. It is provided in aerosol cans.

3.7 Great Stuff™ 10/16 Pound:

A minimally expanding foam plastic sealant. The foam plastic is provided in pressurized tanks.

3.8 Insta-Seal™ 10/16 Pound:

A minimally expanding foam plastic sealant. The foam plastic is provided in pressurized tanks.

3.9 Enerfoam™:

A minimally expanding foam plastic sealant. It is provided in aerosol cans.

4.0 INSTALLATION

Installation of the foam plastic sealants must comply with this report and the manufacturer's published installation instructions. The manufacturer's published installation instructions are to be available at the jobsite at all times during installation.

The foam must be installed to completely fill the annular space around the penetrations for the full depth of the plate that has been penetrated. Use of the foam plastic to fill cracks is required to observe the following limitations:

a. The maximum width of exposed foam or the annular space of penetrations to be sealed is not to exceed $1^{5}/_{16}$ inches (33 mm), and the nominal foam thickness is not to exceed 3 inches (76 mm).

b. The maximum area of exposed foam must not exceed 34 square inches per square foot (2360 cm^2/m^2) of wall area.

5.0 CONDITIONS OF USE

The Great Stuff™, Insta-Seal™ and Enerfoam™ foam plastic sealants described in this report comply with, or are suitable alternatives to what is specified in, those codes listed in Section 1.0 of this report, subject to the following conditions:

5.1 Materials and methods of installation must comply with this report and the manufacturer's published installation instructions. In the event of a conflict between the manufacturer's published installation instructions and this report, this report governs.

5.2 The sealant is not to be used in applications where exposed to sunlight or weather.

5.3 A thermal barrier is not required when installation complies with Section 4.0 of this report.

5.4 Use of the sealants is limited to use in nonfire-resistance-rated partitions where combustible fireblocking required in IBC Section 717.2 is permitted, and to nonfire-resistance-rated construction permitted under the IRC.

5.5 The foam plastic sealants listed in this report are produced in Wilmington, Illinois, under a quality control program with inspections by Underwriters Laboratories Inc. (AA-668).

6.0 EVIDENCE SUBMITTED

6.1 Manufacturer's descriptive literature.

6.2 Report containing results of testing performed in accordance with ASTM E 84.

6.3 Report containing results of comparative testing performed in accordance with a modified version of ASTM E 814.

6.4 Report containing results of testing performed in accordance with UL 1715.

6.5 Report containing results of testing performed in accordance with ASTM C 1622 and ASTM C 1623.

6.6 A quality control manual.

7.0 IDENTIFICATION

The Great Stuff™, Insta-Seal™ and Enerfoam™ foam plastic sealants described in this report must be identified by a label bearing the manufacturer's name (The Dow Chemical Company), the product type, the name of the inspection agency (Underwriters Laboratories Inc.) and the evaluation report number (ESR-1961).