ICC-ES Evaluation Report

ESR-1961

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DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION **Section: 07 21 00—Thermal Insulation** **Section: 07 84 16—Annular Space Protection**	**REPORT HOLDER:** **DUPONT DE NEMOURS, INC.**	**EVALUATION SUBJECT:** **GREAT STUFF™ GAPS & CRACKS, GREAT STUFF™ PRO MULTIPURPOSE BLACK INSULATING FOAM SEALANT, GREAT STUFF™ MULTIPURPOSE BLACK INSULATING FOAM SEALANT, GREAT STUFF™ FIREBLOCK, GREAT STUFF™ WINDOW & DOOR, GREAT STUFF™ BIG GAP FILLER, GREAT STUFF™ PRO GAPS & CRACKS, CONTRACTOR GRADE INSULATING FOAM SEALANT GAP FILLER, GREAT STUFF™ PRO WINDOW & DOOR, CONTRACTOR GRADE INSULATING FOAM SEALANT DOOR & WINDOW, ENERFOAM™, GREAT STUFF™ PESTBLOCK, GREAT STUFF™ OUTDOOR, GREAT STUFF™ PRO PESTBLOCK, GREAT STUFF™ MULTIPURPOSE WHITE INSULATING FOAM SEALANT, FILL & SEAL™, STYROFOAM™ MULTI-PURPOSE INSULATING FOAM SEALANT, AND GREAT STUFF™ BARN & SHED INSULATING FOAM SEALANT**	

1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2024, 2021, 2018, 2015, 2012, 2009 and 2006 *International Building Code®* (IBC)
- 2024, 2021, 2018, 2015, 2012, 2009 and 2006 *International Residential Code®* (IRC)

Properties evaluated:

- Surface-burning characteristics
- Annular space protection

2.0 USES

Great Stuff™ Gaps & Cracks, Great Stuff™ Pro Multipurpose Black Insulating Foam Sealant, Great Stuff™ Multipurpose Black Insulating Foam Sealant, Great Stuff™ Fireblock, Great Stuff™ Window & Door, Great Stuff™ Big Gap Filler, Great Stuff™ Pro Gaps & Cracks, Contractor Grade insulating Foam Sealant Gap Filler, Great Stuff™ Pro Window & Door, Contractor Grade Insulating Foam Sealant Door & Window, Enerfoam™, Great Stuff™ Pestblock, Great Stuff™ Outdoor, Great Stuff™ Pro Pestblock, Great Stuff™ Multipurpose White Insulating Foam Sealant, Fill & Seal™, Styrofoam™ Multi-Purpose Insulating Foam Sealant and Great Stuff™ Barn & Shed Insulating Foam Sealant 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 evaluated for use as an alternative to the methods prescribed by the code for maintaining the integrity of penetrations of wood 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 E84. The packaging consists of a straw, gun, or cylinder foam delivery configuration. The foam plastic products have been tested in accordance with the ICC-ES Acceptance Criteria for Spray-applied Foam Plastic Used to Maintain the Integrity of Wood Fireblocking (AC546) to establish that the integrity of the wood fireblocking is maintained when the wood fireblocking is penetrated.

3.2 Great Stuff™ Gaps & Cracks, Great Stuff™ Multipurpose Black Insulating Foam Sealant, Great Stuff™ Fireblock and Great Stuff™ Pro Multipurpose Black Insulating Foam Sealant:

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 Contractor Grade Insulating Foam Sealant Gap Filler:

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

3.6 Great Stuff™ Pro Window & Door and Contractor Grade Insulating Foam Sealant Door & Window:

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

3.7 Enerfoam™:

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

3.8 Great Stuff™ Pestblock:

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

3.9 Great Stuff™ Outdoor:

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

3.10 Great Stuff™ Pro Pestblock:

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

3.11 Great Stuff™ Multipurpose White Insulating Foam Sealant:

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

3.12 Fill & Seal™:

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

3.13 Styrofoam™ Multi-Purpose Insulating Foam Sealant:

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

3.14 Great Stuff™ Barn & Shed Insulating Foam Sealant:

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 18 square inches per square foot (1250 cm^2/m^2) of wall area.

5.0 CONDITIONS OF USE:

The Great Stuff™, Enerfoam™, Contractor Grade, Fill & Seal™ and Styrofoam™ 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 spray-applied foam plastics in fire-resistance-rated construction has not been evaluated by ICC-ES and is outside the scope of this evaluation report. When requested, evidence of the fire-resistance rating of the assembly, determined in accordance with IBC Section 703.2 or IRC Section R302.3, must be submitted to the code official for their approval.

5.5 The spray-applied foam plastics are not intended for use as a component of a through-penetration firestop system installed in a fire-resistance-rated assembly.

5.6 The spray-applied foam plastics are not intended for use as an alternative to wood fireblocking prescribed by the applicable code.

5.7 The spray-applied foam plastics listed in this report are produced in Wilmington, Illinois, under a quality-control program with inspections by ICC-ES.

6.0 EVIDENCE SUBMITTED

6.1 Data in accordance with the ICC-ES Acceptance Criteria for Spray-applied Foam Plastic Used to Maintain the Integrity of Wood Fireblocking (AC546), dated March 2023 (editorially revised October 2024).

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

6.3 Report containing results of testing performed in accordance with ASTM D1622 and ASTM D1623.

7.0 IDENTIFICATION

7.1 The ICC-ES mark of conformity, electronic labeling, or the evaluation report number (ICC-ES ESR-1961) along with the name, registered trademark, or registered logo of the report holder (DuPont de Nemours, Inc.) must be included in the product label.

7.2 In addition, The Great Stuff™, Enerfoam™, Contractor Grade, Fill & Seal™ and Styrofoam™ foam plastic sealants described in this report must be identified by a label bearing the manufacturer's name (DuPont de Nemours, Inc.), the product type, and the evaluation report number (ESR-1961).

7.3 The report holder's contact information is the following:

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