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ICC-ES Evaluation Report

ESR-1926

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Reissued 02/2019

This report is subject to renewal 02/2020.

DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION

SECTION: 07 84 16—ANNULAR SPACE PROTECTION

REPORT HOLDER:

DAP FOAM, INC.

EVALUATION SUBJECT:

POLYURETHANE FOAM SEALANTS:

TOUCH 'N SEAL® GUN FOAM II/TOUCH 'N FOAM® PRO ALL PURPOSE GUN FOAM; TOUCH 'N SEAL® NO WARP/TOUCH 'N FOAM® WINDOW AND DOOR FOAM; TOUCH 'N SEAL® ALL SEASON GUN FOAM, TOUCH 'N SEAL® /TOUCH 'N FOAM® FIREBREAK TECHNOLOGY FOAM; TOUCH 'N SEAL® QUICK CURE/TOUCH 'N FOAM® TRIPLE EXPANSION; TOUCH 'N SEAL® /TOUCH 'N FOAM® PRO QUICK CURE CANISTER FOAM 10/16/23 POUND



"2014 Recipient of Prestigious Western States Seismic Policy Council (WSSPC) Award in Excellence"



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- TOUCH 'N SEAL® GUN FOAM II / TOUCH 'N FOAM® PRO ALL PURPOSE GUN FOAM
- TOUCH 'N SEAL® NO WARP / TOUCH 'N FOAM® WINDOW AND DOOR FOAM
- TOUCH 'N SEAL® ALL SEASON GUN FOAM, TOUCH 'N SEAL® / TOUCH 'N FOAM® FIREBREAK TECHNOLOGY FOAM
- TOUCH 'N SEAL® QUICK CURE/TOUCH 'N FOAM® TRIPLE EXPANSION
- TOUCH 'N SEAL® / TOUCH 'N FOAM® PRO QUICK CURE CANISTER FOAM 10/16/23 POUND

1.0 EVALUATION SCOPE

Compliance with the following codes:

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

Properties evaluated:

- Surface-burning characteristics
- Annular space protection

2.0 USES

The polyurethane foam sealant products described in the report are used to fill cracks and voids in construction and the annular space created by the penetration of wood fire blocking by pipes and conduits. The polyurethane foam sealant products are recognized for use as an alternative to the methods prescribed by the code for maintaining the integrity of penetrations of fire blocking.

3.0 DESCRIPTION

The polyurethane foam sealant products are single-component, polyurethane foam sealants which expand to take the shape of cracks and voids. The foam plastic 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 (UL 723). The foam plastic is packaged in an aerosol delivery configuration. The foam plastic has been tested in accordance with the time/temperature curve of ASTM E814 to establish that the integrity of the fireblocking is maintained when penetrated.

4.0 INSTALLATION

Installation of the polyurethane foam sealant products must comply with this report and the manufacturer's published installation instructions. The manufacturer's published installation instructions must be available at the jobsite at all times during installation. The polyurethane foam sealant must be installed to completely fill the annular space around the penetrations of the plate or plates penetrated. Use of the polyurethane foam sealant to fill the cracks must observe the following limitations:

- a. The maximum width of exposed foam or the annular space of penetrations to be sealed must not exceed $1\frac{5}{16}$ inches (34 mm). The nominal foam thickness must be between $1\frac{1}{2}$ and 3 inches (38 and 76 mm). Where the thickness of the plate exceeds 3 inches, the Touch 'N Seal® Gun Foam II / Touch 'N Foam® Pro All Purpose Gun Foam may be used at a thickness between $1\frac{1}{2}$ and 4 inches (38 and 102 mm).
- b. The maximum area of exposed foam must not exceed 18 square inches per square foot ($1250 \text{ cm}^2/\text{m}^2$) of wall area.

5.0 CONDITIONS OF USE

The DAP Foam, Inc., polyurethane 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 installation instructions and this report, this report must govern.
- 5.2 The polyurethane foam sealant products must not be used in applications where they are exposed to sunlight or weather.
- 5.3 A thermal barrier is not required for Touch 'N Seal® Gun Foam II / Touch 'N Foam Pro All Purpose Gun Foam, Touch 'N Seal® / Touch 'N Foam Firebreak Technology Foam, and Touch 'N Seal® / Touch 'N Foam Pro Quick Cure Canister Foam 10/16/23 Pound when installation complies with Section 4.0 of this report.

- 5.4 Use of the polyurethane foam sealant products is limited to use in nonfire-resistance-rated combustible construction where fireblocking is required by Section 718.2 of the 2015 and 2012 IBC (2009 and 2006 IBC Section 717.2) and to nonfire-resistance-rated construction under the IRC.
- 5.5 The polyurethane foam sealant products are produced in Pacific, Missouri, under a quality-control program with inspections by ICC-ES.

6.0 EVIDENCE SUBMITTED

- 6.1 Manufacturer's descriptive literature.
- 6.2 Reports containing results of testing performed in accordance with ASTM E84 (UL 723).
- 6.3 Reports containing results of comparative testing performed in accordance with the time/temperature curve of ASTM E814 (UL 1479).

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

- 6.5 A quality control manual.

7.0 IDENTIFICATION

- 7.1 The polyurethane foam sealant products described in this report must be identified by a stamp bearing the manufacturer's name (DAP Foam, Inc.), the product name, and the evaluation report number (ESR-1926).
- 7.2 The report holder's contact information is the following:

DAP FOAM, INC.
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www.dap.com