

UL Solutions Evaluation Report

UL ER38112-02

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UL Category Code: ULEX – Thermal Protection

CSI MasterFormat®

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

Flametech FB, Flametech FB PRO

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2. Scope of evaluation

- 2024 *International Building Code®* (IBC)
- 2024 *International Residential Code®* (IRC)
- ICC-ES Acceptance Criteria for Spray-Applied Foam Plastic used to Maintain the Integrity of Wood Fireblocking (AC546)

The products were evaluated for the following properties:

- Surface Burning Characteristics (UL 723)
- Annular Space Protection (ASTM E814 – Modified Version)
- Foam Plastic – Special Approval (NFPA 286)

3. Referenced documents

- UL723, 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 Evaluation Contribution of Wall and Ceiling Interior Finish to Room Fire Growth
- ICC-ES Acceptance Criteria for Quality Documentation (AC10)
- ICC-ES Acceptance Criteria for Spray-Applied Foam Plastic used to Maintain the Integrity of Wood Fireblocking (AC546)

4. Uses

Flametech FB and Flametech FB PRO are aerosol, one-component expanding polyurethane foam plastic sealants for use as an alternative to the methods prescribed by the code for maintaining the integrity of fire blocking at penetration locations.

The sealants are used:

- To fill cracks and voids in building construction and annular spaces created by penetration of wood fire blocking 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 R303.5.11,
- For fire blocking as required by IBC Section 718.2 and IRC Section R302.11, and
- For sealing cracks and openings in walls not being covered by a thermal barrier.

5. Product description

Flametech FB and Flametech FB PRO are aerosol, one-component expanding polyurethane foam plastic sealants that expand to take the shape of cracks and voids. The foam delivery system consists of a straw and gun.

The sealants have a flame-spread index of 25 or less and a smoke-developed index of 450 or less when tested in accordance with UL 723 as applied in two, 0.5-inch strips, spaced 8-inches on center and covering 5.6% of the exposed test sample area.

The sealants have been tested in accordance with a modified version of ASTM E814 to establish the integrity of the fire blocking is maintained when the fire blocking is penetrated.

The sealants have been evaluated when exposed in a room corner configuration in general accordance with NFPA 286 to demonstrate use without a thermal barrier. The sealants were evaluated when applied to the walls and wall-ceiling intersection at limited coverage to simulate its use as a sealant for cracks and openings in walls.

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6. Installation

Installation of Flametech FB and Flametech FB PRO 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 fire blocking, the sealants shall be installed under the following conditions:

- The sealants 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-inches.

When used to seal openings and cracks in walls and wall-ceiling intersections, without the sealant being covered by a thermal barrier, the sealants shall be installed under the following conditions.

- The maximum width of any exposed sealant strip shall not exceed 1-7/16-inches and the nominal thickness shall not exceed 1-1/2-inches.
- The maximum area of exposed sealant shall not exceed 18 in² per ft² of wall area.

7. Conditions of use

Type Flametech FB and Flametech FB PRO sealants as described in this report, complies with, or are suitable alternatives to what is specified in, those codes listed in Section 2.0 of this report, subject to the following conditions:

- 7.1 The products must be manufactured, identified, and installed in accordance with this report, the manufacturer's published installation instructions, and the applicable code. If there is a conflict between the manufacturers published installation instructions and this report, this report governs.
- 7.2 The sealants shall not be used in applications in which sunlight or weather exposure will occur.
- 7.3 A thermal barrier is not required when installation is in accordance with Section 6 of this report.
- 7.4 Use of the spray-applied foam plastics are limited to Type V-B construction under the IBC and non-fire-resistance-rated construction under the IRC.
- 7.5 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.
- 7.6 The spray-applied foam plastics are not intended for use as an alternative to wood fireblocking prescribed by the applicable code.
- 7.7 For a listing of applicable UL Solutions Certifications for Flametech FB and Flametech FB PRO, see UL Solution's Product iQ® for the following categories:
 - Caulking and sealants UL Classified for surface burning characteristics in accordance with UL 723. ([BLIS](#)).
- 7.8 Type Flametech FB and Flametech FB PRO are manufactured under the UL Solutions Certification and Follow-Up Service Program, which includes audits in accordance with the quality elements of ICC-ES Acceptance Criteria for Quality Documentation, AC10.

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8. Supporting evidence

- 8.1 UL Classification reports in accordance with UL 723.
- 8.2 Report of comparative testing in accordance with a currently accepted, modified version of ASTM E814 and AC546. Method and criteria of acceptance is on file at UL.
- 8.3 Documentation of quality system elements described in AC10.

9. Identification

Type Flametech FB and Flametech FB PRO, as described in this evaluation report, are identified by a marking bearing the report holder's name (EVERKEM DIVERSIFIED PRODUCTS, INC.), the plant identification (if applicable, see 7.6), the product designation, the UL Solutions Classification Mark, and the evaluation report number "UL ER38112-02." The validity of the evaluation report is contingent upon this identification appearing on the product or on the smallest unit container in which the product is packaged.

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