

# UL Evaluation Report



**UL ER13919-01**

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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)**

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## **1. SUBJECT:**

**ICP PRODUCTS, INC. HANDIFOAM® FIREBLOCK, HANDIFOAM® FIREBLOCK WEST, AND FAST FOAM™ FIREBLOCK**

## **2. SCOPE OF EVALUATION**

- 2021, 2018, and 2015 *International Building Code*® (IBC)
- 2021, 2018, and 2015 *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

Handi-Foam® Fireblock, Handi-Foam® Fireblock West, and Fast Foam™ Fireblock are aerosol foam plastic sealants for use as alternatives to the methods prescribed by the code for maintaining the integrity of penetrations of fireblocking.

The sealants are 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
- For fireblocking as required by IBC Section 718.2 and IRC Section R302.11 and
- Seal cracks and openings in walls without being covered by a thermal barrier

### 5. PRODUCT DESCRIPTION

Handi-Foam® Fireblock, Handi-Foam® Fireblock West, and Fast Foam™ Fireblock are single-component, low pressure polyurethane foam plastic sealants that expand to take the shape of cracks and voids. The foam delivery system consists of a straw, gun, or brass nozzle (cylinder foam).

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 ANSI/UL 723 (ASTM E84), as applied in three, 3/4 in. diameter beads 5 in. on-center, covering 12.5 percent of the exposed test sample area.

The sealants have 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 sealants have 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 sealants were applied to the walls and the wall-ceiling intersection at limited coverage to simulate their use as sealants for cracks and openings in walls.

### 6. INSTALLATION

Installation of the foam sealants 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 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 in.

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

- The maximum width of the exposed sealant shall not exceed 1-7/16 in. and the nominal thickness shall not exceed 1-½ inches.

The maximum area of exposed sealant shall not exceed 18 in<sup>2</sup> per ft<sup>2</sup> of wall area.

## 7. CONDITIONS OF USE

Handi-Foam® Fireblock, Handi-Foam® Fireblock West, and Fast Foam™ Fireblock foam plastic sealants described in this report comply with, or are suitable alternatives 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 sealants 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 sealants is limited to Type V-B construction under the IBC and to construction permitted under the IRC.
- 7.5 Handi-Foam® Fireblock, Handi-Foam® Fireblock West, and Fast Foam™ Fireblock foam plastic sealants are manufactured in Norton, Ohio under the UL LLC Classification and Follow-Up Service Program, which includes regular 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

Handi-Foam® Fireblock, Handi-Foam® Fireblock West, and Fast Foam™ Fireblock foam plastic sealants described in this evaluation report are identified by a marking bearing the report holder's name (ICP Building Solutions Group), the plant identification, the UL Classification Mark, and the evaluation report number UL

ER13919-01. The validity of the evaluation report is contingent upon this identification appearing on the product.

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