

# UL Evaluation Report



**UL ER26677-01**

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UL Category Code: ULFE

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**DIVISION: 07 00 00 – THERMAL AND MOISTURE PROTECTION**

**Sub-level 2: 07 80 00 – Fire and Smoke Protection**

**Sub-level 3: 07 81 00 – Applied Fireproofing**

**Sub-level 4: 07 81 23 – Intumescent Fireproofing**

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**1. SUBJECT:**

**FIRE FINISH 120+ CFP-SP WB INTUMESCENT COATING**

**2. SCOPE OF EVALUATION**

- 2018, 2015 *International Building Code*® (IBC)
- 2018, 2015 *International Mechanical Code*® (IMC)
- ICC-ES Acceptance Criteria for Sprayed Fire-Resistant Materials (SFRMs), Intumescent Fire-Resistant Coatings and Mastic Fire Resistant Coatings Used to Protect Structural Steel Members (AC23), dated June 2019
- ICC-ES Acceptance Criteria for Quality Documentation (AC10), dated January 2019

**The products were evaluated for the following properties:**

- Fire Resistance (ANSI/UL 263)
- Surface Burning Characteristics (ASTM E84)
- Environmental Exposures (ICC ES AC23)

**3. REFERENCED DOCUMENTS**

- ANSI/UL 263, Standard for Fire Tests of Building Construction and Materials, Fourteenth Edition including revisions through January 31, 2019
- ASTM E84-16, Standard Test Methods for Surface Burning Characteristics of Building Materials

**4. USES**

Fire Finish 120+ CFP-SP WB is an intumescent coating intended for use as a fire protection spray on structural steel columns, beams, and floor assemblies.

Fire Finish 120+ CFP-SP WB has also been evaluated for exterior use in accordance with ICC ES AC23 Section 3.4.7 when the required topcoats have been applied.

**5. PRODUCT DESCRIPTION**

**5.1 General:**

The intumescent fire resistive material covered in this report can be applied in the various thicknesses as specified in the UL Fire-Resistive Designs listed on the CDWZ.R26677 Classification card on the UL Product iQ™ database.

Fire Finish 120+ CFP-SP WB is a water based intumescent coating providing up to and including 5-1/2 hour fire-resistance ratings, in accordance with ANSI/UL 263.

Fire Finish 120+ CFP-SP WB has a flame spread index not exceeding 25 and a smoke developed index not exceeding 50 and is suitable for use in air plenums, in accordance with 2018 and 2015 IMC Section 602.2.1.

**6. INSTALLATION**

**6.1 General:**

The intumescent fire resistive material covered in this report must be installed in accordance with this report and the manufacturer's published installation instructions, which must be available to the applicators during installation at the jobsite.

Fire Finish 120+ CFP-SP WB shall always be applied over a clean substrate with an approved primer, and is recommended to be applied with an airless spray pump. The product may be touched up and/or repaired utilizing a brush or roller application method.

## **6.2 Fire Resistive Assemblies**

The Fire Finish 120+ CFP-SP WB covered in this report shall be installed as specified in one or more of the UL Fire-Resistive Designs listed in the CDWZ.R26677 Classification Card.

## **6.3 Thickness Tolerances**

The target thickness of the Fire Finish 120+ CFP-SP WB shall comply with the requirements of the various assemblies and applications as specified in the corresponding designs listed on the CDWZ.R26677 Classification Card.

The minus tolerance of any individual intumescent coating thickness must be no less than 80% of the thickness specified in the applicable fire resistive design, in accordance with 2014 AWCI Technical Manual 12-B.

When an individually measured intumescent coating thickness exceeds the design thickness by 20% or more, the thickness shall be recorded as the design thickness plus 20%. The average thickness shall not exceed the maximum tested thickness specified in the applicable designs by more than 10%.

## **6.4 Special Inspections**

Special inspections are required for the intumescent coating covered in this report, in accordance with the 2018 and 2015 IBC Section 1705.15.

## **7. CONDITIONS OF USE**

### **7.1 General:**

The intumescent coating described in this report complies with, or is a suitable alternative to what is specified in, those codes listed in Section 2 of this report, subject to the following conditions:

- 7.2** 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 manufacturer's installation instructions and this report, the report governs
- 7.3** All assemblies shall be built in accordance with the applicable published UL designs, or as otherwise described in this report.
- 7.4** See UL's Product iQ™ database under UL File R26677 for Mastic and Intumescent Coatings ([CDWZ](#)) evaluated as a part of fire resistance-rated assemblies in accordance with ANSI/UL 263.
- 7.5** The intumescent coating covered in this Evaluation Report is manufactured under the UL LLC Classification and Follow-Up Service Program, which includes inspections in accordance with the quality elements of ICC-ES Acceptance Criteria for Quality Documentation, AC10.

## 8. SUPPORTING EVIDENCE

- 8.1 Manufacturer's product literature and installation instructions.
- 8.2 UL Classification reports in accordance with ANSI/UL 263. See UL Product Certification Category, Mastic and Intumescent Coatings (CDWZ).
- 8.3 Data in accordance with ASTM E84.
- 8.4 Data in accordance with ICC-ES Acceptance Criteria for Sprayed Fire-Resistant Materials (SFRMs), Intumescent Fire-Resistant Coatings and Mastic Fire-Resistant Coatings Used to Protect Structural Steel Members (AC23), dated June 2019.
- 8.5 Data in accordance with ICC-ES Acceptance Criteria for Quality Documentation (AC10), dated January 2019.

## 9. IDENTIFICATION

The product described in this evaluation report is identified by a marking bearing the report holder's name (Hilti Construction Chemicals, Div. of Hilti Inc.) or file number, product ID (Fire Finish 120+ CFP-SP WB), the UL Classification Mark, and the evaluation report number UL ER26677-01. The validity of the evaluation report is contingent upon this identification appearing on the product or UL Classification Mark certificate.

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