

ICC-ES Evaluation Report

ESR-4767

Reissued July 2024


This report also contains:

Subject to renewal July 2025

- CBC Supplement
- FBC Supplement
- LABC Supplement

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<p>DIVISION: 07 00 00— THERMAL AND MOISTURE PROTECTION.</p> <p>Section: 07 81 00— Applied Fireproofing</p>	<p>REPORT HOLDER:</p> <p>SHERWIN-WILLIAMS PROTECTIVE & MARINE COATINGS</p>	<p>EVALUATION SUBJECT:</p> <p>FIRETEX FX9502</p>	
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1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2021 and 2018 [International Building Code® \(IBC\)](#)

For evaluation for compliance with codes adopted by [Los Angeles Department of Building and Safety \(LADBS\)](#), see [ESR-4767 LABC Supplement](#).

Properties evaluated:

- Fire-resistance-rated construction
- Surface burning characteristics

2.0 USES

FIRETEX FX9502 provides protection, with up to a one-hour fire-resistance rating, for interior and exterior structural steel columns in accordance with IBC Sections 703.2 and 704 based on rapid temperature rise fire exposure testing in accordance with UL 1709 and UL 2431. When installed in accordance with this report, the product is suitable for use in buildings of Type I and II construction in accordance with Item 21 of IBC Section 603.1.

3.0 DESCRIPTION

FIRETEX FX9502 is a two-part epoxy-based intumescent coating that has a shelf life of twenty-four months when stored in unopened containers at temperatures not less than 50°F (10°C). When installed in accordance with this report, the FIRETEX FX9502 has a Class A interior finish classification, as set forth in IBC Section 803.1, when tested in accordance with ASTM E84 or UL 723. When installed in accordance with this report, the FIRETEX FX9502 meets the UL 2431 Material Classification Category I-A (Outdoor, Heavy Industrial) and Exterior Environmental Purpose.

4.0 DESIGN, INSTALLATION AND SPECIAL INSPECTION

4.1 Design:

Installation is applicable to Interior General Purpose (interior surfaces) and Exterior Environmental Purpose (weather-exposed surfaces).

4.2 Structural Steel Surface Conditions:

All structural steel to be coated with FIRETEX FX9502 must be primed with a layer of an epoxy-based primer, as specified in [Figure 1](#). Primed surfaces must be clean, dry, and free of dirt, loose scale, grease, oil, and any contaminant that would inhibit bonding of the FIRETEX FX9502 to the primer.

4.3 Installation Site Conditions:

FIRETEX FX9502 must be applied when the ambient air temperature is at least 40°F (5°C) and the relative humidity is a maximum of 85 percent. The substrate temperature at the project site must be a minimum of 40°F (5°C) and at least 5°F (3°C) above the dew point and no greater than 167°F (75°C). For additional information on site conditions, see the report holder's published installation instructions.

4.4 Intumescent Coating Application:

FIRETEX FX9502 is spray-applied using a spray pump in accordance with the report holder's published installation instructions. FIRETEX FX9502 may also be trowel-applied.

4.4.1 Thickness: Minimum average required dry-film thicknesses of the intumescent coating applied directly to structural steel columns, as specified in [Figure 1](#). Thicknesses must be verified using a calibrated dry-film thickness gauge.

4.4.2 Minus Tolerance: The thickness of the intumescent coating must be corrected by applying additional material at any location where the average measured thickness of the material is less than that specified in this report, or where an individual measured thickness reading is less than 80 percent of the thickness specified in this report.

4.4.3 Positive Tolerance: An individual measured thickness exceeding the thickness specified in this report by 20 percent or more must be recorded as the thickness specified in the design plus 20 percent. The average dry-film thickness must not exceed by more than 10 percent the maximum thickness specified for the fire-resistance-rated assemblies detailed in this report.

4.5 Special Inspection:

Application of FIRETEX FX9502 as described in this report requires special inspection and tests in accordance with 2021 Section 1705.16 or 2018 IBC Section 1705.15, as applicable. The special inspector must verify the cleanliness of the substrate, site conditions, product designation, application procedures, and applied material thickness.

The thickness of the intumescent coating must be determined using the methods prescribed in Technical Manual 12-B, Standard Practice for the Testing and Inspection of Field Applied Thin-Film Intumescent Fire Resistive Materials: An Annotated Guide, published by the Association of the Wall and Ceiling Industries (AWCI). The special inspector must verify that the application complies with the report holder's published instructions and this report.

5.0 CONDITIONS OF USE:

The FIRETEX FX9502 described in this report complies with, or is a suitable alternative to what is specified in, those codes listed in Section 1.0 of this report, subject to the following conditions:

- 5.1 Installation must comply with this report, the applicable code and the report holder's published installation instructions. If there are differences between this report and the report holder's published installation instructions, the more restrictive governs.
- 5.2 Thickness of the intumescent coating must comply with Section 4.4 and [Figure 1](#) of this report.
- 5.3 Special inspection is required as set forth in 2021 Section 1705.16 or 2018 IBC Section 1705.15 and Section 4.5 of this report.
- 5.4 The coating described in this report is permitted to be used on steel columns, as specified in [Figure 1](#).
- 5.5 The FIRETEX FX9502 described in this report is produced under a quality control program with inspections by ICC-ES.

6.0 EVIDENCE SUBMITTED

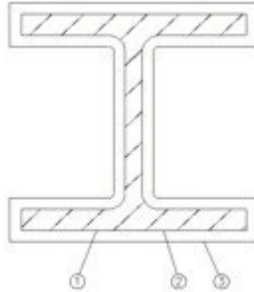
Data in accordance with the [ICC-ES Acceptance Criteria for Intumescent Fire-resistant Coatings and Mastic Fire-resistant Coatings used to Protect Structural Steel Members from Rapid Temperature Rise Fires \(AC523\)](#), dated June 2021.

7.0 IDENTIFICATION

- 7.1 Containers of the intumescent coating bear the company name (Sherwin-Williams Protective & Marine Coatings) and address, product name (FIRETEX FX9502), storage and shelf-life information, and the ICC-ES evaluation report number (ESR-4767).

7.2 The report holder’s contact information is the following:

SHERWIN-WILLIAMS PROTECTIVE & MARINE COATINGS
TOWER WORKS, KESTOR STREET
BOLTON, BL2 2AL
UNITIED KINGDOM
+44 1204 521771
www.sherwin-williams.com/protectiveEMEA



1. **Steel Column:** Size W10x49. Steel column surfaces must be free of dirt, loose scale and oil before application of the primer and intumescent coating.
2. **Primer:** Epoxy based primer applied at dry film thickness specified in the table below prior to application of intumescent coating.
3. **Intumescent Coating:** FIRETEX FX9502 applied in accordance with manufacturer's instructions to the minimum dry film thicknesses specified in the table below. The specified coating thickness does not include thickness of the primer.

Fire-resistance Rating, hr	Steel Column Size, in. (mm)	Hp/A (A/P)	Primer thickness, in. (mm)	Minimum Coating Thickness, in. (mm)
1	W10x49 (W254x73)	160 (0.84)	0.002 (0.05)	0.187 (4.75)

FIGURE 1—FIRE-RESISTANCE RATINGS FOR STEEL COLUMNS – 1 HOUR

DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION
Section: 07 81 00—Applied Fireproofing

REPORT HOLDER:

SHERWIN-WILLIAMS PROTECTIVE & MARINE COATINGS

EVALUATION SUBJECT:

FIRETEX FX9502

1.0 REPORT PURPOSE AND SCOPE**Purpose:**

The purpose of this evaluation report supplement is to indicate that FIRETEX FX9502, described in ICC-ES evaluation report [ESR-4767](#), has also been evaluated for compliance with the code noted below as adopted by the Los Angeles Department of Building and Safety (LADBS).

Applicable code edition:

- 2020 *City of Los Angeles Building Code* (LABC)

2.0 CONCLUSIONS

The FIRETEX FX9502, described in Sections 2.0 through 7.0 of the evaluation report [ESR-4767](#), complies with the LABC Sections 603.1, (Item 21), 703.2, 704 and 803 and is subjected to the conditions of use described in this supplement.

3.0 CONDITIONS OF USE

The FIRETEX FX9502 described in this evaluation report supplement must comply with all of the following conditions:

- All applicable sections in the evaluation report [ESR-4767](#).
- The design, installation, conditions of use and identification of the FIRETEX FX9502 is in accordance with the 2018 *International Building Code*® (IBC) provisions noted in the evaluation report [ESR-4767](#).
- The design, installation and inspection are in accordance with additional requirements of LABC Chapters 7, 8 and 17 as applicable.

This supplement expires concurrently with the evaluation report, reissued July 2024.

DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION
Section: 07 81 00—Applied Fireproofing

REPORT HOLDER:

SHERWIN-WILLIAMS PROTECTIVE & MARINE COATINGS

EVALUATION SUBJECT:

FIRETEX FX9502

1.0 REPORT PURPOSE AND SCOPE**Purpose:**

The purpose of this evaluation report supplement is to indicate that FIRETEX FX9502, described in ICC-ES evaluation report ESR-4767, has also been evaluated for compliance with the code noted below.

Applicable code edition:

2019 *California Building Code* (CBC)

For evaluation of applicable chapters adopted by the California Office of Statewide Health Planning and Development (OSHPD) AKA: California Department of Health Care Access and Information (HCAI) and the Division of State Architect (DSA), see Sections 2.1.1 and 2.1.2 below.

2.0 CONCLUSIONS**2.1 CBC:**

The FIRETEX FX9502, described in Sections 2.0 through 7.0 of the evaluation report ESR-4767, complies with CBC Sections 603.1 (Item 21), 703.2, 704 and 803.1, provided the design and installation are in accordance with the 2018 *International Building Code*® (IBC) provisions noted in the evaluation report and the additional requirements of CBC Chapters 7, 8 and 17, as applicable.

2.1.1 OSHPD: The applicable OSHPD Sections of the CBC are beyond the scope of this supplement.

2.1.2 DSA: The applicable DSA Sections of the CBC are beyond the scope of this supplement.

This supplement expires concurrently with the evaluation report, reissued July 2024.

DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION
Section: 07 81 00—Applied Fireproofing

REPORT HOLDER:**SHERWIN-WILLIAMS PROTECTIVE & MARINE COATINGS****EVALUATION SUBJECT:****FIRETEX FX9502****1.0 REPORT PURPOSE AND SCOPE****Purpose:**

The purpose of this evaluation report supplement is to indicate that FIRETEX FX9502, described in ICC-ES evaluation report ESR-4767, has also been evaluated for compliance with the code noted below.

Applicable code edition:*2020 Florida Building Code—Building***2.0 CONCLUSIONS**

The FIRETEX FX9502, described in Sections 2.0 through 7.0 of the evaluation report ESR-4767, complies with the *Florida Building Code—Building*, provided the design requirements are determined in accordance with the *Florida Building Code—Building*. The installation requirements, noted in ICC-ES evaluation report ESR-4767 for the 2018 *International Building Code*®, meet the requirements of the *Florida Building Code—Building*.

Use of the FIRETEX FX9502 has also been found to be in compliance with the High-Velocity Hurricane Zone provisions of the *Florida Building Code—Building*.

For products falling under Florida Rule 61G20-3, verification that the report holder's quality-assurance program is audited by a quality-assurance entity approved by the Florida Building Commission for the type of inspections being conducted is the responsibility of an approved validation entity (or the code official when the report holder does not possess an approval by the Commission).

This supplement expires concurrently with the evaluation report, reissued July 2024.