



## **FIREFREE 88<sup>®</sup>**

Premium Intumescent Fire-Resistant Coating, setting the highest standard in fire protection.



-  The First and Only Coating to pass Full-Scale Fire Tests on Loaded Building Materials, including: Open Wood Joists (Horizontal), Gypsum Walls, Ceiling Assemblies and more.
-  The First FM Approved Coating tested to FM 4470 (NFPA 276) to improve Wood Roof Decks Construction Materials from Class 2 to Class 1.

**ADVANCED PROTECTION. CERTIFIED PERFORMANCE. TRUSTED WORLDWIDE.**

# Firefree 88<sup>®</sup> Premium Intumescent Fire-Resistant Coating

## Product Characteristics

**Type:** Liquid, Water-Based Latex

**Color:** White

**Finish/Sheen:** Flat (1.9-2.2 @60°; 0.5-1 @85°)

**VOC:** <36g/L (Test method ASTM D3960)

**% Volume Solids:** 67%

**Divisions:** 099643 Fire Retardant Coatings;

099646 Intumescent Paint;

078123 Intumescent Fireproofing;

**Viscosity:** 115 @ 77°F (25°C) kU (Test method ASTM D-562)

**Specific Gravity/Density:** 1.272 ± 0.05 g/ml (Test method ASTM D1475)

**Thinning:** Not Recommended

**Packaging:** 5-gallon (19 liters), Pail – Weight: 60 lbs. (27 kg)

**Shelf-Life:** 2 years (unopened)

## Key Features



Fully Tested & Certified & High Performance.



Ahead of Competition.



Cost-Effective & Easy to use and apply.



Usable on multiple substrates and assemblies.



Can be tinted (not to exceed 8oz per tint/gal).



Eco-Friendly: Low VOC content, non-toxic.



Lightweight to the structure.



Water-Based Latex.



Coated with FF88

5 mins

Uncoated

## Recommended Uses

Firefree88<sup>®</sup> (Ff88) is a versatile fire-resistant coating suitable for a wide range of materials, including:

- Wood
- Gypsum Board (Sheetrock, Plasterboard)
- Lath and Plaster
- Embossed/Pressed Metal Tin
- Concrete/Masonry
- Thin Gauge Metal
- Galvanized Steel and Aluminum
- Fiberglass, Carbon Fiber
- Plastics and Composite Materials

Ff88 can provide fire ratings (1 and 2 hours) depending on the substrate and assembly. The required thickness varies based on the substrate, assembly, and required fire rating.

## Market | Industries

- Commercial, Industrial, Government, and Residential Construction (New Builds, Retrofits, and Defective)
- Insulation and Transportation
- Historic Properties
- Schools, Healthcare (Hospitals, Assisted Living), Apartments, Condominiums, High-Rises, Hotels
- Stores, Restaurants, Oil & Solar Facilities
- Government and Military Facilities
- Transportation (Aerospace, Aviation, Light Rail, Maritime, Energy)

## Certification | Compliance

### Laboratory Testing & Accreditation:

- Tested by Independent ISO/IEC 17025 Accredited Laboratory.
- CSIRO (Australia), a NATA Accredited Laboratory, Assessed/Certified.

### Regulatory & Industry Approvals:

- FM 4975 – Fire Protective Coatings Interior Finish Insulation.
- FM 4470 (NFPA 276) – Protective Coatings Approval.
- FM 4880 Part 1 – Room Corner Test.
- MEA #320-99 (City of New York).
- ICC-ESL CAN/ULC S102-10 Listed.
- ICC-ES Full-Scale ASTM E 119 Listed.

### Fire Performance Standards:

- Class 1-S, per NZBC Verification Method (New Zealand).
- UL #R14654 Classified on OSB, Douglas Fir.
- Class O, per BS 476 Part 6 & 7 (UK).

### Fire Ratings Compliance (International Building Code):

- Full-scale Fire-Resistant Testing: ASTM E 119, ASTM E 662-97, ASTM E 3675-98, ASTM E 162-98, ASTM E 1354-94, ASTM E 814, BS 476, AS 1530.3, AS 1530.4, EN 13501-1.
- Fire Retardant Testing: Room Corner Test (UBC 8-2, NFPA 286, UBC 26-3).

### Contributions to LEED Points:

- Firefree 88 may contribute up to five LEED points.

### Additional Standards & Certifications:

- Emissions: Meets CDPH/EHLB Standard Method v1.2, 2017 for VOC emissions.
- VOC Compliance: Meets regulations from OTC, SCAQMD, and CARB.
- Master Painters Institute® (MPI): Compliant.
- Green Performance: GPS1/GPS2 Certified.

### Test Methods:

- ASTM D-3960 (Volatile Organic Compound (VOC) Content of Coatings).
- ASTM D-562 (Viscosity by Stormer Viscometer).
- ASTM D-1475 (Density of Paints).

## Application

FF88 should be applied by an experienced and licensed contractor, following the Ff88 Application Instructions. For exterior applications requiring FfE, strict compliance with the FfE Application Instructions is also necessary.

### Application Equipment:

- Sprayed (using an airless spray gun)
- Rolled
- Brushed

Due to its high solids content, Ff88 offers an excellent spread rate and coverage.

It is the responsibility of the customer to ensure the product is applied according to the instructions and recommended thickness by the manufacturer.

## DFT Third Party Inspection

As this is a life safety issue, the application of the FF88 intumescent surface-applied coating will require a third-party inspection, as stipulated in all our terms and conditions, as well as all our submittals.

## Color | Finish

- FF88 is available in white with a flat finish. For interior applications, FF88 can be top-coated with premium latex paints.
- Can be tinted (not to exceed 8oz per tint/gal).





## About us

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**Firefree Coatings, Inc.** is the leading developer of high-quality fire-retardant and fire-resistant intumescent coatings that help reduce the spread of fire, minimize smoke and toxic gases that would occur during a fire, thus giving occupants extra time to evacuate a building safely and limiting property damages. Our products are tested at third-party accredited International Accreditation Service (IAS) fire testing laboratories, are ASTM, ICC listed and have been approved by FM (Factory Mutual).

Firefree Coatings is strongly committed to human safety and environmental issues and is strongly positioned to meet the increasing demand for fire safety for commercial, industrial, government, residential, and other markets. Firefree Coatings is a member of NFPA, ICC and ASTM E-05 Committee. Firefree and Firefree88 are registered trademarks of Firefree Coatings.

### Contact Us

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