



FlameOFF® Fire Barrier Paint

Solutions For Fire Safety and Fire Safety Designs

FlameOFF Fire Barrier Paint is a water based, non-toxic, thin film intumescent coating that provides up to 2 hour fire ratings on Structural Steel and Drywall, and 1 hour on Wood. It is tested and certified to both ASTM E119/UL 263 and ASTM E84/UL 723 standards. It is approved for interior conditioned and general purpose applications. It can be found in both the ICC-ES Listing Directory and UL Product iQ for UL Classified products. See directories for full listing details.

FlameOFF Fire Barrier paint is distinguished by its smooth latex like finish, easy application, and dynamic research and development practices. It has undergone versatile testing and can be applied to a variety of substrates. It is a cost effective, labor and time saving solution to help existing and new building construction meet and exceed fire rating code requirements. To top it all off, it is low VOC and LEED compliant!



During Burn



After Burn

Dry Film Thicknesses

Steel Members

Rating	1 Hour	DFT(Mils)
WF Beams*		38-77
WF Columns**		32-97
HSS Tube Columns***		60-108

*W/D ratio 0.54-1.91, restrained
 **W/D ratio 0.44-1.91
 ***A/P ratio 0.21-0.49

Corrugated Metal Decking

Ratings	DFT(Mils)
1 hour Rating	45
2 hour Rating	45

Wood

Ratings	DFT(Mils)
1 hour Rating	30
30 min extended Class A	20
E84 Class A	10

Gypsum

Rating	2 Hour	DFT(Mils)
WF Beams*		91-110
WF Columns**		81-317
HSS Tube Columns***		185-345

Ratings	DFT(Mils)
5/8" Type X, 2 hour	45
1/2" Regular, 1 hour	30
E84 Class A	15

Additional Substrates

Rating	Class A	DFT(Mils)
Steel, aluminum, cement board		10
Thermoplastics		15
FRP, 30 min extended		17

All information is for illustrating purposes only. Please contact FlameOFF® Coatings for estimates.

Email: info@flameoffcoatings.com

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LISTED INTUMESCENT COATING

FlameOFF® Fire Barrier Paint

This product is ICC-ES Listed and UL Classified for ASTM E119/UL 263 Fire Endurance Ratings and ASTM E84/UL 723 Flame Spread and Smoke Development Ratings. See ICC and UL Listing Directories for full details. Testing data available for up to 2 hours on Steel and Drywall, and 1 hour on Wood.



SUBMITTALS

The intumescent fire protection system shall be installed at the required dry film thickness per the relevant listings, classifications, and/or individual test reports for FlameOFF Fire Barrier Paint, and applied at the required thickness to be compliant with testing specifications.

QUALITY ASSURANCE

The intumescent fire protection system is manufactured under the follow up service program of both ICC-ES and UL.

DELIVERY, STORAGE & HANDLING

Delivery of materials to the project in manufacturers unopened packages, fully identified as "FlameOFF Fire Barrier Paint". Package materials shall bear the appropriate labels seals and label for fire resistive rating and shall be stored at temperatures between 45° F (10° C) and 100° F (40° C) in a dry interior location away from direct sunlight. DO NOT FREEZE.



*See ICC Reports
Directory ESL-1191



*See UL Fire Resistance
Directory R38327

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EQUIPMENT

AIRLESS SPRAY

- Fluid Pressure..... min. 3000 PSI (210 kg/cm2)
- Spray Gun Contractor gun (with filter removed).
- Spray tip021 – .025
- Fan Size..... 4"-10" (depending on section being sprayed)
- Hose Length..... 50' maximum
- Material Hose..... 1/2" I.D.

MIXER

1/2" electric or air driven drill with a slotted paddle mixer (300 rpm under load)

APPLICATION RATE

Spray... 20-45 mils (1.14 mm) per coat (wet)
Brush... 10 mils (0.25 mm) per coat (wet)

* WFT per coat influenced by applicator experience and site conditions.

CHARACTERISTICS

Finish Flat

Color Off-White

Durometer Hardness .D 2240 70 Shore D

Impact Resistance D 2794 92 inch-lb

Abrasion Resistance .D 4060 .1900 g/1000 cycle

Bond Strength..... ASTM E736 – 7000 PSF

V.O.C. 0.06 lbs/gal (7 g/l)

Volume Solids 71%

Drying Time Spray: 7-8 hours
Brush: 2-3 hours
*varies with application thickness and jobsite conditions.

Type of Cure Coalescence

Flash Point None

Reducer/Cleaner Water

Shelf Life 12 months (unopened)

Packaging.....5 gallon containers

Shipping weight.....5 gallons - 64 lbs



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SURFACE PREPARATION

All surfaces to receive the intumescent fire protection system shall be clean, dry, and free of oil, grease, loose mill scale, dirt, dust, or other materials which would impair bond of the intumescent fire protection system. Any cleaning of the surfaces to receive the fire resistive material shall be the responsibility of the party applying the intumescent fire protection system.

A primer is required for steel applications and recommended for non steel substrates in certain situations. For additional details, consult the Product Data Sheet and Application Guide.

PROJECT/SITE CONDITIONS

The minimum substrate and ambient temperature of 45°F (10°C) shall be maintained prior to, during, and a minimum of 72 hours after application.

Relative humidity shall not exceed 85% throughout the total period of application and drying for the intumescent fire resistive material.

APPLICATION

Stir thoroughly and apply WFT as specified. Do not apply in temperatures below 45°F (10°C). Product may be applied by brush or spray application. Do not apply by roller. Spray application is recommended for the optimum appearance. Primer must be applied to steel substrates. Consult Application Guide for full details prior to application.

APPLICATOR

A firm with expertise in the installation of the intumescent coating and/or similar materials. FlameOFF Coatings Training Module available for applicator product training.

TOP COATING

For interior conditioned spaces, no topcoat is required. Topcoat may be applied for aesthetics or additional surface protection.

For general purpose/non conditioned applications, an exterior grade topcoat is required for protection. Please consult FlameOFF Technical Sales team for most current product recommendations.

Do not use solvent based top coating.

INSPECTION AND TESTING

In addition to WFT checks performed by applicator during application, the installed intumescent material shall be inspected in accordance with the AWCI Technical Manual 12-B "Standard Practice For The Testing and Inspection of Field Applied Thin-Film Intumescent Fire-Resistive Materials an Annotated Second Edition". The results of the above tests shall be made available to applicable parties at the completion of each area and approved prior to the application of topcoat.

A dry film thickness gauge can be used to insure the coating has been applied to the required thickness. For common inspection methods, please consult FlameOFF Coatings Technical Team.

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