FlameOFF Fire Barrier paint is a water based, non-hazardous thin film intumescent coating that provides up to 2 hour fire ratings on interior Steel and Gypsum and 1 hour on interior Wood. It is ICC-ES listed, UL tested, and certified to both E-119 (1 and 2 hour) and E-84 (Class A Flame Spread) standards.

FlameOFF Fire Barrier paint is distinguished by its smooth architectural 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!

<table>
<thead>
<tr>
<th>Steel Members</th>
<th>1 Hour</th>
<th>DFT (Mils)</th>
</tr>
</thead>
<tbody>
<tr>
<td>I Beams**</td>
<td>43</td>
<td></td>
</tr>
<tr>
<td>WF Columns**</td>
<td>57</td>
<td></td>
</tr>
<tr>
<td>Pipe Columns**</td>
<td>97</td>
<td></td>
</tr>
<tr>
<td>Square Tube Columns**</td>
<td>74</td>
<td></td>
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</table>

<table>
<thead>
<tr>
<th>Rating</th>
<th>2 Hour</th>
<th>DFT (Mils)</th>
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</thead>
<tbody>
<tr>
<td>I Beams**</td>
<td>71</td>
<td></td>
</tr>
<tr>
<td>WF Columns**</td>
<td>161</td>
<td></td>
</tr>
<tr>
<td>Pipe Columns**</td>
<td>202</td>
<td></td>
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<tr>
<td>Square Tube Columns**</td>
<td>207</td>
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</table>

<table>
<thead>
<tr>
<th>Corrugated Metal Decking</th>
<th>1 hour Rating</th>
<th>2 hour Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>35 Mils DFT</td>
<td>75 Mils DFT</td>
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</table>

<table>
<thead>
<tr>
<th>Wood</th>
<th>1 hour Rating</th>
<th>30 Mils DFT</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>1 hour Rating</td>
<td>30 Mils DFT</td>
</tr>
<tr>
<td></td>
<td>2 hour Rating</td>
<td>45 Mils DFT</td>
</tr>
</tbody>
</table>

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

**W10x49 I Beam and WF Column; 4x4x1/2" Tube Column; 8x1/2" Pipe Column

Dry Film Thicknesses

During Burn

After Burn

Flame spread

OSB
Plywood
Roofing Panel

EQUIPMENT

AIRLESS SPRAY

• Fluid Pressure .................. 2,000 p.s.i. (140 kg/cm²)
• Strainer .......................... 100 Mesh (or remove)
• Spray Gun ..................... Contractor gun (with filter removed).
• Spray tip .......................... .019 – .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

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 Roll. Spray application is recommended for the optimum appearance. Primer must be applied to Steel substrates.

APPLICATION RATE

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

CHARACTERISTICS

Finish ......................... Flat
Color ............................. Off-White

Durometer Hardness . D 2240  68 Shore D
Impact Resistance ...... D 2794  92 inch-lb
Abrasion Resistance . D 4060 .1900 g/1000 cycle
Bond Strength .......... D 4541  7000 p.s.f.
V.O.C. ......................... (47 g/l)
Volume Solids ............ 70%

Drying Time .............. from 2 to 8 hours depending on WFT and 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
**LISTED INTUMESCENT COATING**

**FlameOFF Fire Barrier Paint**

Tested in accordance with ASTM E-119, and to UL 263 & NFPA 251 standards. Also tested in accordance ASTM-2768 for flame spread and smoke index.

**Fire Resistance Rating**

When applied to structural steel, gypsum wall assemblies, gypsum floor/ceiling, wood wall assemblies and wood floor ceilings assemblies as per test results at ICC-ES and QAI Fire Testing Laboratories.

**Material Details**

FlameOFF FCI applied to various mil thickness depending on the substrate and assembly being treated for flame and fire resistance. Contact FlameOFF Coatings to determine Mil thickness for the appropriate application and desired rating. i.e. 1 hour, 2 hours

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**Submittals**

The intumescent fire protection material shall be applied at the required thickness to be compliant with the testing specifications.

**Quality Assurance**

The intumescent fire protection system is manufactured under the follow up service program of ICC-ES (www.icc-es.org).

**Applicator**

A firm with expertise in the installation of the fire resistance and/or similar materials.

**Delivery, Storage and 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 labels 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.

**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.

**Job Site Scheduling**

Applicator shall cooperate in the coordination and scheduling of fire protection work.
Intumescent Fire Protection System

Intumescent fire protection material shall be applied in accordance with drawing, and/or specifications, and shall have been tested in accordance with procedures of UL 263 or ASTM E-119, and reported by ICC-ES and QAI labs fire protection listing certificate.

Decorative Top coating

No top coat is required. Topcoat may be applied for color-coding, aesthetics or additional surface protection.

Do not use Solvent based top coating.

Preparation

All surfaces to receive 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.

Application

The intumescent fire protection system shall be applied at the required dry film thickness per the appropriate ICC-ES and QAI listing certificates.

Inspection and Testing

In addition to continuing wet film thickness checks performed by applicator during applications, 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”, before application of the top coat.

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 reader can be used to insure dry film thickness and can be supplied by the manufacture if no third party inspectors are available in the area.