FlameOFF® Fire Barrier paint is a water based, non-toxic 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 tested and certified to both E119/UL 263 (1 and 2 hour) and E84/UL 723 (Class A flame spread and smoke development) standards. Additionally, it can be found in both the ICC ES Listing directory and UL Product iQ for UL Classified products. See directories for full listing/classification details.

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!

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## Dry Film Thicknesses

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

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

<table>
<thead>
<tr>
<th>Gypsum</th>
<th>Flame spread</th>
</tr>
</thead>
<tbody>
<tr>
<td>Regular 1/2&quot;, 1 hour Rating</td>
<td>30 Mils DFT</td>
</tr>
<tr>
<td>5/8&quot; Type X, 2 hour Rating</td>
<td>45 Mils DFT</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Wood</th>
<th>Flame spread</th>
</tr>
</thead>
<tbody>
<tr>
<td>OSB</td>
<td>10 Mils DFT</td>
</tr>
<tr>
<td>Plywood</td>
<td>10 Mils DFT</td>
</tr>
<tr>
<td>Roofing Panel</td>
<td>10 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

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FlameOFF® Fire Barrier Paint is MWMA approved and LACC listed.
EQUIPMENT

AIRLESS SPRAY

- Fluid Pressure............ 3,000 p.s.i. (210 kg/cm²)
- Strainer ................... 100 Mesh (or remove)
- Spray Gun ................. Contractor gun (with filter removed).
- Spray tip ................... .021 – .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... 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 68 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. ...................... (47 g/l)
- Volume Solids ............ 70%
- 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
**Solutions For Fire Safety And Fire Safety Designs**

**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 both ICC-ES UL.

**Applicator**

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

**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 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.

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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. It is ICC Listed for ASTM E84/UL723 flame spread and smoke development ratings. See ICC Listing Directory and UL Product iQ for full details.

**Fire Resistance Rating**

FlameOFF® intumescent paint provides up to 2 hour fire rating on interior Steel and Gypsum, and 1 hour on interior Wood.

**Material Details**

FlameOFF® Fire Barrier Paint is applied to various mil thicknesses 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.
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/ASTM E119 and/or UL 723/ASTM E84, as required by the local building code and AHJ.

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. For primer requirements, consult Product Data Sheet and Application guide.

Application

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

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 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.