

# FlameOFF®

## FlameOFF® Fire Barrier Paint

## Submittal Data Sheet Structural Steel

### Selection & Specification Data

<b>Generic Type</b>	A water-based intumescent coating that consists of a vinyl acetate resin.
<b>Description</b>	A decorative thin-film intumescent coating designed for fire protection of structural steel for interior conditioned and general purpose applications requiring ASTM E119 testing for full scale/load bearing applications.
<b>Features</b>	<ul style="list-style-type: none"> <li>• Tested to ASTM E119 / UL 263 standards</li> <li>• Decorative aesthetic finish - provides a hard, durable, architectural finish. Compatible with most latex/acrylic topcoats</li> <li>• Thin film coating - offers an economical solution to alternative fireproofing</li> <li>• low VOC, LEED compliant</li> <li>• Easy repair - if damaged, product can be patched easily</li> <li>• Does not require reinforcing mesh</li> <li>• Third party listing certificate</li> </ul>
<b>Color</b>	White
<b>Finish</b>	Smooth
<b>Primer</b>	An alkyd metal or all purpose acrylic primer must be applied to steel before intumescent coating application. *For galvanized surfaces use all purpose acrylic primers ONLY.
<b>Topcoat</b>	For interior conditioned space, topcoating is not required but may be applied for aesthetic purposes.  Product must be topcoated if there are environmental exposure requirements. Refer to FlameOFF® Coatings, Inc. technical support.  Intumescent coating must be applied to the required DFT and fully cured to a Shore D Hardness of 70 before topcoat is applied.
<b>Thickness Per Coat</b>	Recommended 20-35 Mils WFT *Range: 15-45 Mils WFT. Maximum thickness per coat depends upon applicator experience, substrate, and job site conditions.
<b>Solids Content</b>	By Volume 71%
<b>Theoretical Coverage Rates</b>	1138 sq ft/gallon at 1 mil DFT (105.7 m <sup>2</sup> / at 25 microns) 37 sq ft/gallon at 30 mils DFT (3.4 m <sup>2</sup> / at 750 microns)
<b>VOC Values</b>	As Supplied 0.06 lbs/gal (7 g/l)

### Testing / Certification / Listing

**Listing** This product is ICC-ES Listed and UL Classified. It has been tested in accordance with ASTM E119/UL 263 Fire Endurance requirements to meet the full scale requirement of IBC/NFPA Building Codes.



\*See ICC Reports  
Directory ESL 1191




\*See UL Fire Resistance  
Directory R38327

Contact FlameOFF® Coatings for any additional testing outside listing reports provided above

ASTM E119	2 hours
ASTM E84	Class A
ASTM D2240	70 Shore D

### Packaging, Handling & Storage

<b>Shelf Life</b>	12 Months *Shelf life when kept at recommended storage conditions and in original unopened containers.
<b>Shipping Weight</b>	64 lbs per 5 gal pail
<b>Flash Point</b>	N/A
<b>Storage</b>	Store indoors in a dry environment between 40°F and 100°F (7°C and 38°C)
<b>Packaging</b>	5 Gal
	This product is proudly manufactured in the USA

### Mixing & Thinning

<b>Thinning</b>	DO NOT THIN or alter in any way.
<b>Mixer</b>	Use 1/2" electric or air driven drill with a slotted paddle mixer (300 rpm under load)
<b>Mixing</b>	Product must be mixed using a 1/2" electric air driven drill with a slotted paddle or Jiffy mixer blade. Mix material for a minimum of 5 minutes to achieve the necessary texture required before spraying.

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Revised 02/01/24



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### Substrate & Surrounding Surface Preparation

<b>General</b>	All surfaces must be primed and must be clean, dry, and free of oil, grease, loose scale, dirt, dust or other materials that would impair the bonding of the intumescent coating to the substrate.
<b>Overspray</b>	As with all spray-applied coatings, care should be taken to mask off areas not intended to be rated by the intumescent paint. All adjacent and finished surfaces should be protected from damage and overspray.

### Application Conditions and Curing Schedule

Application Temperature & Humidity	Condition	Material	Humidity
	Minimum	45°F (10°C)	0%
	Maximum	100°F (40°C)	85%

Surface Temp. & 50% Relative Humidity	Handle	Recoat (spray)	Recoat (brush)	Topcoat
70 °F (21 °C)	24 Hours	7-8 hours	2-3 hours	48-72 hours

\*Curing times are dependent upon temperature, ventilation, and humidity. Lower temperatures will slow down the curing process, higher temperatures will speed up the curing process. Additional ventilation (add fan may expedite curing process. For optimum curing, it is recommended to apply coats at 20-45 mils wet per coat. **Material is ready to be topcoated when an average Shore D hardness of 70 is achieved.**

**Product application Guide should be reviewed in its entirety prior to application of Fire Barrier Paint.**

### Application Equipment Guidelines

General equipment guidelines are given below, and may need to be modified depending on individual jobsite conditions in order to achieve the desired results. See Application Guide for full application details. Contact FlameOFF® Coatings with any questions.

<b>Airless Spray</b>	Use 1.0 gal. per minute electric airless (minimum) to provide an operating pressure of 3,000 p.s.i. (140 kg/cm <sup>2</sup> ). ** Remove rock catcher from siphon tube.**
<b>Spray Gun</b>	Contractor Gun (with filter removed) or equivalent
<b>Spray Tips</b>	0.021" - 0.025"
<b>Fan Size</b>	4"-10" (depending on section being sprayed)
<b>Hose Length</b>	50' (15 m) maximum

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<b>Mixing</b>	Product must be mixed using a 1/2" electric air driven drill with a slotted paddle or Jiffy mixer blade. Mix material for a minimum of 5 minutes to achieve the necessary texture required before spraying.

### Application Procedures

<b>General</b>	Product may be applied by brush or spray application. Do not apply with a roller. Spray application is recommended for the optimum appearance.
<b>Airless Spray</b>	A single coat built up with a number of quick passes allows greater control over quantities, thickness and finish. **Note - In most conditions, it is advantageous to apply two thin coats rather than one thick coat.**
<b>Application Rates</b>	Spray: 20-45 Mils Wet Film Thickness Brush: 10 Mils Wet Film Thickness
<b>Wet Film Thickness</b>	Frequent thickness measurements with a wet film gauge are recommended during the application process to ensure uniform thickness.

### Cleanup & Safety

<b>Cleanup</b>	Flush pump, gun, tips, hoses and mixer with hot water at least once per day.
<b>Safety</b>	Follow all safety precautions on the product Material Safety Data Sheet. This product is water based and non hazardous. Appropriate PPE is recommended during application.

### Maintenance

<b>General</b>	If coating becomes damaged, rebuild the required thickness by spray or brush. When dry, smooth and finished, topcoat may be applied. The repair area must follow all surface preparation requirements before reapplying the coating. The coating must be built back to the original thickness.
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Revised 02/01/24