



FlameOFF® Fire Barrier Paint

Submittal Data Sheet Structural Steel

Selection & Specification Data

Generic Type	A water-based intumescent coating that consists of a vinyl acetate resin.
Description	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.
Features	<ul style="list-style-type: none"> Tested to ASTM E119 / UL 263 standards Decorative aesthetic finish - provides a hard, durable, architectural finish. Compatible with most latex/acrylic topcoats Thin film coating - offers an economical solution to alternative fireproofing low VOC, LEED compliant Easy repair - if damaged, product can be patched easily Does not require reinforcing mesh Third party listing certificate
Color	White
Finish	Smooth
Primer	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.
Topcoat	<p>For interior conditioned space, topcoating is not required but may be applied for aesthetic purposes.</p> <p>Product must be topcoated if there are environmental exposure requirements. Refer to FlameOFF® Coatings, Inc. technical support.</p> <p>Intumescent coating must be applied to the required DFT and fully cured to a Shore D Hardness of 70 before topcoat is applied.</p>
Thickness Per Coat	Recommended 20-35 Mils WFT *Range: 15-45 Mils WFT. Maximum thickness per coat depends upon applicator experience, substrate, and job site conditions.
Solids Content	By Volume 71%
Theoretical Coverage Rates	1138 sq ft/gallon at 1 mil DFT (105.7 m2 / at 25 microns) 37 sq ft/gallon at 30 mils DFT (3.4 m2 / at 750 microns)
VOC Values	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

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

Mixing & Thinning

Thinning	DO NOT THIN or alter in any way.
Mixer	Use 1/2" electric or air driven drill with a slotted paddle mixer (300 rpm under load)
Mixing	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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Web: www.flameoffcoatings.com

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Substrate & Surrounding Surface Preparation

General	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.
Overspray	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.

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

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Application Procedures

General	Product may be applied by brush or spray application. Do not apply with a roller. Spray application is recommended for the optimum appearance.
Airless Spray	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.**
Application Rates	Spray: 20-45 Mils Wet Film Thickness Brush: 10 Mils Wet Film Thickness
Wet Film Thickness	Frequent thickness measurements with a wet film gauge are recommended during the application process to ensure uniform thickness.

Cleanup & Safety

Cleanup	Flush pump, gun, tips, hoses and mixer with hot water at least once per day.
Safety	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

General	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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