



FlameOFF® Fire Barrier Paint

Submittal Data Sheet Gypsum/Wood

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 Gypsum/Sheetrock and Wood applications for interior use requiring ASTM E119, ASTM E84, NFPA 251, ULC CAN S-101.
Features	<ul style="list-style-type: none">• Certified to ASTM E119/UL 263• Decorative aesthetic coating - provides a hard, durable, architectural finish.• Well suited for residential and commercial applications• Space saving- ideal for applications when additional layers of gypsum cannot be installed• Compatible with most topcoats (though not required)• Thin film coating - offers an economical solution to alternative fireproofing• low VOC, LEED compliant• Easy repair - If damaged, product can be patched easily
Color	White
Finish	Smooth
Primer	Wood: Recommended but not required Gypsum: Not required <small>*Some tape/mud/putty products will better receive intumescent paint if first primed.</small>
Topcoat	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 before topcoat is applied.
Thickness Per Coat	Recommended 20-35 Mils WFT <small>*Range: 15-45 Mils WFT. Maximum thickness per coat depends upon applicator experience, substrate, and job site conditions.</small>
Solids Content	By Volume 71%
Theoretical Coverage Rates	1075 sq ft/gallon at 1 mil (1002 m / at 25 microns) 36 sq ft/gallon at 30 mils (3.3 2 m / at 750 microns)
VOC Values	As Supplied 0.06 lbs/gal (7 g/l)

Testing / Certification

Listing This product is ICC-ES Listed and UL Classified for various applications. It has been tested at Underwriters Laboratories in accordance with ASTM E119/UL 263 Fire Endurance requirements to meet the Full Scale requirement of IBC/NFPA Building Codes.



ESL IFRM 1191-01 *See UL Fire Resistance
for gyp wall, ESL1192 Directory R38327

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

Required DFT


Required Dry Film Thickness & Corresponding Coverage Rate	Substrate			
		5/8" Type X Gypsum	1/2" Regular Gypsum	Wood
	Class A***	15 Mils DFT 75 sq ft/gal	15 Mils DFT 75 sq ft/gal	10 Mils DFT 110 sq ft/gal
	Class A 30 min extended **	15 mils DFT 75 sq ft/gal	X	20 mils DFT 56 sq ft/gal
	1 hour*	30 Mils DFT 37 sq ft/gal	30 Mils DFT 37 sq ft/gal	30 Mils DFT 37 sq ft/gal
	2 hour*	45 Mils DFT 25 sq ft/gal	X	X

* ASTM E119 1 and 2 hour ratings

** ASTM E2768 Class A, Extended

*** ASTM E84 Class A flame spread and smoke development rating

Packaging, Handling & Storage

Shelf Life	12 Months <small>Shelf life when kept at recommended storage conditions and in original unopened containers.</small>
Shipping Weight	64 lbs per 5 gal pail
Storage	Store indoors in a dry environment between 45°F and 105°F (7°C and 40°C)
Packaging	5 Gal  This product is proudly manufactured in the USA

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Substrates & 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.

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.**

**See Application Guide for full application details.

Application Equipment Guidelines

General equipment guidelines are given below, and may need to be modified depending on individual jobsite conditions. 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/cm²).
** 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

Material Hose 1/2" I.D.

** Listed here are general equipment guidelines for the application of this product. Job site conditions may require modifications to these guidelines to achieve the desired results.**

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.

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.

Overspray All adjacent and finished surfaces shall be protected from damage and overspray.

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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