

### 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 Gypsum/Sheetrock and Wood applications for interior use requiring ASTM E-119, ASTM E-84, NFPA 251, ULC CAN S-101.
<b>Features</b>	<ul style="list-style-type: none"> <li>• Certified to ASTM E-119</li> <li>• Decorative aesthetic coating - provides a hard, durable, architectural finish.</li> <li>• Well suited for residential and commercial applications</li> <li>• Space saving- ideal for applications when additional layers of gypsum cannot be installed</li> <li>• Compatible with most topcoats (though not required)</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> </ul>
<b>Color</b>	White
<b>Finish</b>	Smooth
<b>Primer</b>	None required for applications on Gypsum or Wood
<b>Topcoat</b>	<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 before topcoat is applied.</p>
<b>Thickness Per Coat</b>	20-45 Mils WFT
<b>Solids Content</b>	By Volume 70%
<b>Theoretical Coverage Rates</b>	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)
<b>VOC Values</b>	As Supplied 0.06 lbs/gal (7 g/l)

### Testing / Certification

<b>Listing</b>	This product has been tested in accordance with ASTM E-119 to UL 263 standards. It meets the requirements of IBC/NFPA Building Codes.	
	ASTM E-119	2 hours
	ASTM E-84	Class A

### Required DFT

#### Required Dry Film Thickness & Corresponding Coverage Rate

	45 Mils DFT 25 sq ft/gal	30 Mils DFT 37 sq ft/gal	15 Mils DFT 75 sq ft/gal
<b>Substrate</b> 5/8" Type X Gypsum	2 Hrs*	1 Hr*	Class A**
1/2" Regular Gypsum		1 Hr*	Class A**
Wood		1 Hr*	Class A**

\*ASTM E-119 1 and 2 hour ratings  
\*\*E-84 Class A flame spread rating

### 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>	(Setflash) 93°F (30°C)
<b>Storage</b>	Store indoors in a dry environment between 45°F and 105°F (7°C and 40°C)
<b>Packaging</b>	5 Gal



This product is proudly manufactured in the USA

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### Application Conditions and Curing Schedule

Application Temperature & Humidity	Condition	Material	Humidity
	Minimum	40°F (4.5°C)	0%
	Maximum	105°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.**

### Application Equipment Guidelines

General equipment guidelines are given below, and may need to be modified depending on individual jobsite conditions. 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
<b>Material Hose</b>	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

<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.

### Substrates & Surface Preparation

**General** All surfaces 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 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 Mil Wet Film Thickness  
Brush: 10 Mil Wet Film Thickness  
\*\*7 hour recoat time. See Application Manual.\*\*

**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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