Selection & Specification Data

Generic Type
A water-based intumescent coating that consists of a vinyl acetate resin.

Description

Features
- Certified to ASTM E-119
- 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
None required for applications on Gypsum or Wood

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
20-45 Mils WFT

Solids Content
By Volume 70%

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 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

<table>
<thead>
<tr>
<th>Substrate</th>
<th>45 Mils DFT 25 sq ft/gal</th>
<th>30 Mils DFT 37 sq ft/gal</th>
<th>15 Mils DFT 75 sq ft/gal</th>
</tr>
</thead>
<tbody>
<tr>
<td>5/8” Type X Gypsum</td>
<td>2 Hrs*</td>
<td>1 Hr*</td>
<td>Class A**</td>
</tr>
<tr>
<td>1/2” Regular Gypsum</td>
<td>2 Hrs*</td>
<td>1 Hr*</td>
<td>Class A**</td>
</tr>
<tr>
<td>Wood</td>
<td>1 Hr*</td>
<td>1 Hr*</td>
<td>Class A**</td>
</tr>
</tbody>
</table>

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

Packaging, Handling & Storage

Shelf Life
12 Months

Shipping Weight
64 lbs per 5 gal pail

Flash Point
93°F (30°C)

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*

The data and suggested formulations in this bulletin are based on information believed to be reliable and are offered solely for evaluation, investigation and verification of numerous factors affecting results. FlameOFF Coatings, Inc. products are sold with the understanding the purchasers will make their own tests to determine the suitability of these products for the particular use. We assume no liability or responsibility for any damage to person or property resulting from or incident to the use of our products. Statements concerning the use of FlameOFF Coatings, Inc. products are not to be construed as recommending the infringement of any patent, and no liability for infringement arising out of any such use is assumed.
Application Conditions and Curing Schedule

<table>
<thead>
<tr>
<th>Application Temperature &amp; Humidity</th>
<th>Condition</th>
<th>Material</th>
<th>Humidity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum</td>
<td>40°F (4.5°C)</td>
<td>0%</td>
<td></td>
</tr>
<tr>
<td>Maximum</td>
<td>105°F (40°C)</td>
<td>85%</td>
<td></td>
</tr>
</tbody>
</table>

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 Mils Wet Film Thickness
Brush: 10 Mils Wet Film Thickness

**7 hour recoat time. See Application Manual.**

Cleanup & Safety

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.

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.

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.

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.

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. Jobsite conditions may require modifications to these guidelines to achieve the desired results.**

Overspray

Flush

Wet Film Thickness

Frequent thickness measurements with a wet film gauge are recommended during the application process to ensure uniform thickness.

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