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 applications requiring ASTM E119 testing for full scale/load bearing applications.

Features
- 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
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.

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 at Underwriters Laboratories in accordance with ASTM E119/UL 263 Fire Endurance requirements to meet the Full Scale requirement of IBC/NFPA Building Codes.

ICC ES LISTED
*See ICC Reports Directory ESR- 3874

CLASSIFIED UL
*See UL Fire Resistance Directory R38327

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.

Phone: (866) 598-8470 Email: info@flameoffcoatings.com Web: www.flameoffcoatings.com

FlameOFF® Coatings, Inc. owns and certifies all data in this document. This document may not be altered by anyone other than FlameOFF® Coatings, Inc.

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 be construed as recommending the infringement of any patent, and no liability for infringement arising out of any such use is assumed.

Revised 6/1/2020

FlameOFF® Fire Barrier Paint

Submittal Data Sheet
Structural Steel

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.**

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.

Dry Film Thickness

Final thickness must be measured using an electronic dry film thickness gauge. For method of thickness determination and tolerances refer to: AWCI Technical Manual 12-B (Standard Practice for the Testing and Inspection of Field Applied Thin Film Intumescent Materials); and International Building Code - IBC 1705.14

Recommended Dry Film Thickness

Required Dry FIlm Thickness is dependent upon the type/size/shape of the steel member. Please refer to FlameOFF® Coatings's Steel Coverage Calculator or consult a representative for required DFT.

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.

Phone: (866) 598-8470 Email: info@flameoffcoatings.com Web: www.flameoffcoatings.com

FlameOFF® Coatings, Inc. owns and certifies all data in this document. This document may not be altered by anyone other than FlameOFF® Coatings, Inc.

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 be construed as recommending the infringement of any patent, and no liability for infringement arising out of any such use is assumed.

Revised 6/1/2020