Flame Seal FX950 (IFRM)
APPLICATION GUIDE

9 09 96 46 Intumescent Painting

Description

Flame Seal FX950 is a low-VOC, water-based intumescent fire resistive material (IFRM) for use on lumber, plywood, OSB, Gypsum and other building materials. FX950 has a wide range of certifications to meet building codes domestically, internationally, and for the Wildfire Urban Interface. FX950 has a standard white architectual-grade finish.

Testing

ASTM E 84	Class A
CAN/ULC S102	Class A
ASTM 2768 (Pass)	Pass
ASTM E 119	2 Hours
CAN/ULC S101	2 Hours
VOC Emission CA 1305	Compliant

Application

FX950 can be applied over cleaned substrates using an airless sprayer, brush, or roller over an approved primer system. Apply FX950 at the appropriate coverage rate based on your specific application (See Application Rate Chart). Use a wet mill gauge to check for proper millage and do not exceed 30 wet mills per pass. Measure environmental conditions before and during the application process. Conditions such as temperature, humidity, and dew point can effect application (See Application Temperatures Chart). Always wear proper clothing and apply FX950 in a well-ventilated area.

Recommended Spray Equipment

Minimum Requirements

Dynamic	At Gun	Tip Size
3000 PSI	2000 PSI	.021 - .027

Graco	Ultra Max II 795/1095
Titan	Impact 840/1140

*Remove all filters!

Substrate Preparation

Flame Seal FX950 must be applied to surfaces free of dirt, grease, loose particles, and any foreign matter. Thorough mixing is required prior to application. The quality of any good application is only as good as the surface preparation that precedes the application. Verify the surface is stable, and not crumbling or deteriorating. If any such defects are found, repair prior to proceeding.

Application Temperatures

Air Temperature	60°F – 90°F
Humidity Range	35% - 85%
Surface Temperature	60°F – 90°F
Application Product Temperature	60°F – 90°F

Material Preparation

Mix Flame Seal FX950 with a 1/2-inch drill mixer with a 5-gallon steel spiral mixer for 3-5 minutes to ensure that the product is properly blended. If FX950 is not properly mixed it will severly compromise the application.

Application Rate Chart

Substrate	Standard	WFT	DFT	SqFt/Gal
Wood	ASTM E 84	9	6	180
Wood	CAN/ULC S102	9	6	180
Wood	ASTM 2768	20	13	80
Gypsum	ASTM E 119	60	40	27
Gypsum	CAN/ULC S101	60	40	27

WFT= Wet Film Thickness
DFT= Dry Film Thickness

*DO NOT EXCEED 30 WFT PER PASS

Primers & Top Coating

Primers and top coats may required in high humidity applications or when a desired color is needed. The use of primers and top coats have been tested to the ASTM E-84 and ASTM 2768. Testing data shows that the use of top coats have no affect on the burn performance of Flame Seal FX950. For a list of recommended primers and top coats please email dylan@flameseal.com

Storage

Flame Seal FX950 should be stored between 50°F – 90°F. The prod-uct must be protected from freezing during Shipping, Storage and Application. Note: If product has been frozen, please contact your Flame Seal representative.

Clean Up

Flame Seal FX950 is a water based, latex paint. FX950 can be cleaned up with soapy water. (hot water is most effective)

Application Procedure

1. If using an airless sprayer ensure The airless spray unit, hoses, and gun must be thoroughly cleaned before using Flame Seal FX950 and all filters must be removed.

2. We recommend a .021-.027 nozzle to be used with FX950

3. Ensure that the surfaces are clean and free of dust, oils, and other materials. Repair any compromised areas.

4. Conduct environmental analysis to determine that the temperature, humidity, and dew point are within guidelines. (air temperature 60 – 90 degrees; surface temperature 60 – 90 degrees; humidity 35 – 85%; conditions must be at least →5 above dew point) If the environment is outside these requirements, introduce dehumidifiers or fans.

5. Ensure that the application crew is using personal safety equipment

6. We recommend the use of test strips for use with the wet mil gauge. These strips should be placed strategically across the project and retained as an element of project documentation.

7. Flame Seal FX950 should be thoroughly mixed with an electric drill and paint mixing attachment. Mix at moderate for 3-5 minutes.

8. Apply FX950 in a smooth, overlapping pattern ensur-ing that all surfaces receive the appropriate amount of paint. Test depth regularly with a wet mil gauge and use test strips. Do not exceed 30 Wet Mils per pass.

9. Under normal conditions, FX950 is dry to the touch in 1-4 hours. Maintain temperature and humidity for 24 hours so that Flame Seal FX950 is fully cured.

10. Clean-up over spray and airless spray unit with warm soapy water. Make sure that the airless sprayer has been thoroughly cleaned before leaving the job site.

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