



Flame Seal IB Application Guide

Description

FS-IB™ Ignition Barrier is a, water-based latex coating for use as an ignition barrier over interior Spray Polyurethane Foam (SPF) insulation. FS-IB uses intumescent technology to protect SPF from flame source impingement. FS-IB™ is designed specifically as a protective coating over spray foam insulation in non-occupied areas, such as crawl spaces and uninhabited attics in both residential and commercial structures. The product has been tested successfully via the AC 377 Test Standard.



Application

The standard recommended application method for FS-IB is an airless spray equipment. Small jobs or touchups may be performed by roller, or brush. FS-IB must be applied to surfaces free of dirt, grease, loose particles, and any foreign matter. Thorough mixing is required prior to application. Coverage rates may vary depending on SPF density, brand and testing results. Please seek proper application coverage specs from either the SPF manufacturer or a Flame Seal Testing Matrix.

Recommended Spray Equipment

Flame Seal IB may only be applied with an industrial airless sprayer. See examples of Flame Seal approved Airless Sprayers and Equipment.

Dynamic	At Gun	TIP SIZE
3000 PSI	2000 PSI	.025-.033

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

*Remove all filters!

Substrate Preparation

Flame Seal 84 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 application is only as good as the surface preparation that precedes the application. Verify the surface is stable, and not crumbling or deteriorated. If any such defects are found, make sure to repair them 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 IB with a 1/2-inch drill mixer with a 5-gallon steel spiral mixer for 3-5 minutes to ensure that that the product is properly blended. If Flame Seal IB is not properly mixed it will severely compromise the application.

Testing Matrix

*All foams are tested to the AC 377 Standard

Foam Brands	Foam Type	Wet Mills	Coverage Rate
<u>Accella Bayseal</u>	OC	8	200 sq. ft.
<u>Acme Urethanes WC-50</u>	OC	6	300 sq. ft.
<u>BASF Ewertite</u>	OC	7	250 sq. ft.
<u>Creative Polymers Airlok 45</u>	OC	6	300 sq. ft.
<u>Demilec Sealection 500</u>	OC	6	300 sq. ft.
<u>Lapolla FL500</u>	OC	6	300 sq. ft.
<u>PCC Prodex</u>	OC	5	350 sq. ft.
<u>Polygreen Solutions Green Seal 44</u>	OC	6	300 sq. ft.
<u>SES 0.5</u>	OC	4	400 sq. ft.
<u>SWD Quik Shield 106</u>	OC	6	300 sq. ft.
<u>SWD Quik Shield 108</u>	OC	6	300 sq. ft.
<u>Victory Polymers VPC Onestroke</u>	OC	6	300 sq. ft.

Storage

Flame Seal IB should be stored between 50°F – 90°F. The product 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 IB is a water based, latex coating. Flame Seal IB 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 IB and all filters must be removed.

2. We recommend a .025-.033 nozzle to be used with Flame Seal IB

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 IB should be thoroughly mixed with an electric drill and paint mixing attachment. Mix at moderate speed until the product is smooth and the coating is white with no streaks of grey.

8. Apply Flame Seal IB in a smooth, overlapping pattern ensuring that all surfaces receive the correct thickness of the coating. Test depth regularly with a wet mil gauge and use test strips.

9. Under normal conditions, Flame Seal IB is dry to the touch in 2-4 hours. Maintain temperature and humidity for 24 hours so that Flame Seal IB is fully cured.

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



Flame Seal Products, Inc
15200 West Drive Houston, Texas 77053
713-668-4291
flameseal@flameseal.com