



Flame Seal Ignition Barrier

Description

FS-IB™ is a single component, water-based latex coating for use as an ignition barrier over Spray Polyurethane Foam (SPF) insulation. FS-IB uses intumescent technology for use in unoccupied areas such as crawl spaces and unhabitated attics, to protect SPF from flame source impingement in both residential and commercial structures. FS-IB is designed for AC-377 Appendix X compliance over SPF and should not be utilized in habitable areas or commercial structures where secondary fire protection is not separating the spray foam from the interior of the building.



Testing

ASTM E 84	Class A
CAN/ULC S102	Class A
ASTM 2768 (30 Minute)	Pass
ASTM E 119	2 Hours
CAN/ULC S101	2 Hours

General Application Parameters

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 the Flame Seal Testing Matrix.

Recommended Spray Equipment

Flame Seal IB may only be applied with an industrial airless sprayer. See recommendations below.

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 Ignition Barrier 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.

Application Temperature Chart

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 and a 5-gallon steel spiral mixer for 3-5 minutes. Ensure it is properly blended. If Flame Seal IB is not properly mixed it will compromise the application.



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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 guide- lines. (air temperature 60 – 90 degrees; surface tem- perature 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 strategical- ly across the project and retained as an element of project documentation.
7. Flame Seal IB should be thoroughly mixed with an elec- tric 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.

FS-IB Ignition Barrier Approvals (ER-600)

Foam Brand	Type	Wet Mils	Sqft/gal	SPF Listing
Acme Urethanes WC-50	OC	6	300	ER-605
AccuFoam OC	OC	6	300	ER-554
Ambit AXI OC .4	OC	5	350	Coming Soon
Ambit AXI OC .5	OC	5	350	Coming Soon
BASF Enercite	OC	7	250	ER-3102
Carlisle SealTite Pro Open Cell	OC	4	400	ER-624
Carlisle SealTite Pro Open Cell HY	OC	4	400	ER-623
Carlisle SealTite No-Mix	OC	4	400	Coming Soon
Creative Polymers Airlok 45	OC	6	300	ER-554
Demilec Sealection 500	OC	6	300	ESR-1172
Icynene Classic	OC	6	300	ESR-1826
Icynene Classic Ultra	OC	6	300	ESR-1826
Icynene Classic Ultra Select	OC	6	300	ESR-1826
Lapolla FL 450	OC	6	300	ESR-4242
Lapolla FL 500	OC	6	300	ESR-1148
PCC Prodex	OC	6	350	Coming Soon
Polygreen Solutions Green Seal 44	OC	6	300	ESR-606
SES EasySeal	OC	4	400	ER-492
SWD Quik-Shield 106	OC	6	300	CCRR-1011
SWD Quick-Sheild 108	OC	6	300	CCRR-1051
SWD Quik-Shield 108YM	OC	6	300	CCRR-1051
Victory Polymers OneStroke	OC	6	300	ER-599
XtremeSeal 0.5	OC	4	400	ER-538