



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 touch-ups 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 examples below 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

FS-IB 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 for 3-5 minutes per 5-gallon pail and 17-20 minutes per 55-gallon drum to ensure that that the product is properly blended. If Flame Seal IB is not properly mixed it can compromise the application.

Testing

FS-IB is approved over multiple foam products across many brands. For a thorough list, see below at the bottom of the application guide or visit our website at flameseal.com.



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Storage

Flame Seal IB should be stored between 40°F – 90°F. The product must be protected from freezing during Shipping, Storage, and Application. Note: If the 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 water.

Application Procedure

1. If using an airless sprayer, the airless spray unit, hoses, and the gun must be thoroughly cleaned before using Flame Seal IB. 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%. The temperature must be at least 5 degrees above dew point) If the conditions are outside these requirements, introduce dehumidifiers or fans.
5. Ensure that everyone near the application is using personal safety equipment
6. We recommend using test plates with a wet mil gauge to check wet mil depth. These test plates should be placed strategically across the project and retained as an element of project documentation.
7. Mix Flame Seal IB with a 1/2-inch drill mixer for 3-5 minutes for a 5-gallon pail and 17-20 minutes for a 55-gallon drum to ensure that the product is properly blended. If Flame Seal IB is not properly mixed it can compromise the application.
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 plates.
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 water. Make sure that the airless sprayer has been thoroughly cleaned before leaving the job site.





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Foam	Type	Wet Mils	Sqft/Gal	SPF Listing
Acme WC50	OC	6	300	ER-605
AccuFoam OC	OC	6	300	ER-554
Ambit AXI OC 4.1	OC	5	350	TBD
AmbiSeal 5.0	OC	5	350	TBD
BASF Enertite G	OC	7	250	ESR-3102
BASF Enertite NM	OC	7	250	ESR-3102
BASF Spraytite 158	CC	8	200	ESR-2642
BASF Spraytite Comfort	CC	8	200	ESR-2642
BASF Spraytite Comfort Plus	CC	8	200	ESR-2642
BASF Spraytite LWP-L	CC	8	200	ESR-2642
BASF Spraytite SP	CC	8	200	ESR-2642
Carlisle Foamsulate 50	OC	4	400	ER-321
Carlisle Foamsulate HY	OC	4	400	ER-540
Carlisle Sealtite Pro	CC	4	400	ER-624
Carlisle Sealtite HighYield	OC	4	400	ER-623
Carlisle Sealtite Pro No-Mix	OC	4	400	ER-616
Creative Polymers Airlok.45	OC	6	300	ER-554
Demilec Sealection	OC	6	300	ESR-1172
EnergyOne EOA500	OC	4	400	ESR-3686
Icynene Classic	OC	6	300	ESR-1826
Icynene Ultra	OC	6	300	ESR-1826
Icynene 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	5	350	ESR-4003
Polygreen Solutions OC.5	OC	6	300	ER-606
Sustainable Polymers OC.5	OC	14	400	ER-513
SWD QS106	OC	6	300	CCRR-1051
SWD QS108	OC	6	300	CCRR-1051
SWD QS108YM	OC	6	300	CCRR-1051
Victory Polymers OneStroke	OC	6	300	ER-599
Victory Polymers VPC-50	OC	4	400	ER-674
XtremeSeal 5.0	OC	4	400	ER-538