



Flame Seal 84 Application Guide

Description

Flame Seal 84 (Fireproof Paint) is latex based, intumescent paint designed for use over combustible interior materials. The product can be applied to most substrates including, wood, plywood, OSB, gypsum wallboard to increase the fire resistance. Flame Seal 84 can also be used on metal surfaces with the use of a primer. Please check certification and manufacturer information for details. When properly applied, Flame Seal 84 meets the ASTM E-84 class-A testing requirements for flame and smoke spread. When Flame Seal 84 is exposed to fire or extreme heat, a protective layer of Carbon Foam develops and prevents the fire and heat from transferring to the substrate. This coating comes in standard white.



Testing

ASTM E 84	Class A
ASTM 2768 (30 Min)	Pass
CAN/ULC S102	Class A

Application

Flame Seal 84 can be applied using airless sprayer, brush, or roller. Apply at a the appropriate coverage rate for your application. See Application Rate chart. Use a wet mill gauge to check for the proper millage. Proper care of the environmental conditions including temperature, humidity, and dew point must be taken during the application and process. Always wear proper clothing and apply the product in a well-ventilated area. The product should not be top coated without the express written approval of Flame Seal Products. Smooth surfaces may require a primer for improved adhesion. Please contact us at: flameseal@flameseal.com

Recommended Spray Equipment

Flame Seal 84 may only be applied with an industrial airless sprayer. See examples of Flame Seal approved Airless Sprayers and 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 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 84 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 84 is not properly mixed it will severely compromise the application.

Application Rate Chart

Product	Wet Mills	Cover Rate
Flame Seal 84	9 Wet Mills Class A Rating	180 sq. ft Per Gal
Flame Seal 84	15 Wet Mills Class A Rating (Best Finish)	106 sq. ft Per Gal
Flame Seal 84	20 Wet Mills 30 Minute Rating	80 sq. ft. Per Gal

Primers & Top Coating

Flame Seal 84 can be top coated when being used for exterior use or if a specific color is desired. For a list of recommended primers and top coats please visit our training page and contact us at flameseal@flameseal.com

Storage

Flame Seal 84 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 84 is a water based, latex paint. Flame Seal 84 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 84 and all filters must be removed.
2. We recommend a .021-.025 nozzle to be used with Flame Seal 84
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 84 should be thoroughly mixed with an electric drill and paint mixing attachment. Mix at moderate for 3-5 minutes.

8. Apply Flame Seal 84 in a smooth, overlapping pattern ensuring that all surfaces receive the appropriate amount of paint. Test depth regularly with a wet mil gauge and use test strips.

9. Under normal conditions, Flame Seal 84 is dry to the touch in one hour. Maintain temperature and humidity for 24 hours so that Flame Seal 84 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.



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