

Product Data Sheet



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PO Box 531
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Chemical Name:

Flame Stop II

Tested By:

U.S. Testing Company Inc., Omega Point Labs,

Description:

Flame Stop II is a **post-treatment** interior/exterior fire retardant and preservative. This product **dries clear**. When used on porous wood such as Douglas Fir or Pine, it will provide a class A rating. Flame Stop II penetrates wood and becomes part of its molecular structure. Flame Stop II closes wood pores making them insoluble to water, therefore it can be said that this product is a wood preservative. This product contains proprietary vinyl-copolymer-latex that will protect the fire retardant from exterior weather for a minimum of 5 – 10 years. When the treated material is subjected to an open flame, the retardant will **pyrolitically self-extinguish fire** with **minimum smoke**. Flame Stop II is completely **non-toxic and non-hazardous** to the environment and easy to apply. **ALL FLAME STOP PRODUCTS ARE NON-TOXIC, NON HALOGENATED, CONTAIN NO FORM OF BROMINE AND CONTAIN MOLD AND MILDEW INHIBITORS WHICH ARE EFFECTIVE AGAINST BLACK MOLD**

Basic Uses:

Flame Stop II should be used for interior/exterior applications such as: most porous woods, cedar shake shingles. Flame Stop II may also be applied to various types of fabrics that are used for exterior purposes such as awnings, stage decorations, costumes, etc. It also works well on décor thatching, wood stage props, hay barriers, hula skirts, and other porous cellulosic material.

Advantages:

Class A one coat system. Flamespread 25, Smoke Developed 25. Since Flame Stop II penetrates and becomes part of the substrate, the life of the flame retardancy is indefinite if interior. If exterior, we recommend retreatment after 5 years. Flame Stop II is user-friendly, water based and non-toxic. This product dries clear and may be coated with most latex coatings or latex stains after the product has cured for a minimum of 24 hours. Humidity, rain and moisture is not an issue after Flame Stop II has cured and if applied properly due to its unique polymer bond for an indefinite time in interior and minimum of 5 years exterior. Most fire retardants that are thick paints will deteriorate over time because they do not become part of the wood. Flame Stop II will not alter the structural integrity of the wood like pressure treatment does. Flame stop II is often chosen because it is non-toxic, dries clear, easy (spray, brush or roll) application and is an excellent wood preservative.

Limitations:

DO NOT DILUTE. Storage range: 45-110 degrees F., Shelf Life: 1 year if kept within storage temperature range. We suggest a small compatibility test. Moisture content should be 8-19% before treatment. Woods that have a low moisture content may need to be treated with a heavier coverage.

Applicable Standards:

Flame Stop II has been tested to the following standards: ASTM E-84, NFPA 255, UL 723, US Testing #LA62466, Omega Point Labs #8746-108578, California Reg. #C-14401, LA Approval RR#25420 CSI#09960

Application:

Flame Stop II should be applied as is by spraying or immersing. Use low pressure spray equipment, brush or roll. Apply at rate of 125 sq. ft/gallon. If spraying in a vertical surface where runoff could occur, multiple applications are allowed. Wait until the first coat has penetrated (1-2 hrs) and begin next application. One coat is considered a 24 hr. cure period. The only time that multiple coats may be required is on woods that have a moisture content below 8% or if runoff is an issue. To obtain a Class A rating, the entire coverage rate of 125 sq.ft per gallon must be applied to wood with no runoff.

*******After treatment, a 24-hour conditioning period is necessary before testing*******

Flame Spread: 25 Smoke Developed 25

Warranty: This product is sold on condition that the user will evaluate them to determine their suitability for their purpose. Flame-Block of Kansas & Flame Stop, Inc. warrants that each quantity of Flame Stop I will be the kind designated and free of defects and no other warranty is implied since we have no control over the application.

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Technical Support

Total Solids:	15%
Wt. Per Gallon	9.5 lbs.
Average pH:	5.0
Color:	White (dries clear)
Solvents:	Water
Bacterial:	Good Resistance
Fungus:	Good Resistance
Volatility:	None
Toxic:	No
Biodegradable:	Yes
Corrosive:	Mildly on Unplated steel
Linear Shrinkage:	None
Insects, Rodents, and mold:	Excellent resistance