

Product Data Sheet



1-888-640-7149

www.flame-block.com

Email:
info@flame-block.com

PO Box 531
Derby, KS 67037

Chemical Name:

Flame Stop I

Tested By:

U.S. Testing Company Inc.

Description:

Flame Stop I is a **post-treatment** indoor fire retardant. This product **dries clear**. When used on porous wood such as Douglas Fir or Pine, it will provide a class B rating. This product is also very effective on most synthetic fabrics. Flame Stop I **penetrates wood and becomes part of it's molecular structure**. When the treated material is subjected to an open flame, the retardant will **pyrolitically self-extinguish** fire with minimum smoke. Flame Stop I is completely **non-toxic and non-hazardous** to the environment and simple 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 I is used for interior applications such as: **draperies, wall coverings, carpet, furniture, cotton muslin, paper, straw, most synthetics, redwood, cedar, Douglas fir, etc.** This product is used widely in restaurants, hotels, hospitals, homes and many other commercial and residential buildings.

Advantages:

Class B one coat system. 35 Flamespread. 15 smoke developed. Since Flame Stop I penetrates and becomes part of the substrate, the life of the flame retardancy is indefinite as long as fabrics are not wet washed, however they may be dry cleaned up to 20 times. All of our products were tested using single-coated materials. Flame Stop I has many uses and is our most universal fire retardant. Flame Stop I will not deteriorate because it is not a coating. Instead it penetrates and becomes part of most materials. This product will not alter the structural integrity of the wood. Flame Stop I is often chosen because it is non-toxic, dries clear, easy (spray, brush or roll) application. Once cured (24 hrs), the treated material may be painted with a latex paint.

Limitations:

DO NOT DILUTE. Storage range: 45-110 degrees F., Shelf Life: 3 years if kept within storage temperature range.

Applicable Standards:

Flame Stop I has been tested to the following standards:
ASTM E-84, NFPA 255, UL 723, US TESTING #LA62192, CA Reg. #C-14401, NFPA 701

Application:

Flame Stop I can be applied as is by spraying or immersing. In order to be effective there must be a 2-5% increase in the weight of the fabric. If material is synthetic such as Nylon, a heavier coat may be needed. Since all fabrics have a different density, a small test should be performed by the utilization of a small fame (butane lighter). Hold a 4"X12" piece of the treated material vertically and apply the flame to the lower portion for 10 seconds. Remove the ignition source. The flame must go out within 2 seconds. This is similar to the small-scale NFPA 701 field test. Apply to wood at the rate of 200 sq. ft per gallon, fabric at 200-300 sq ft per gallon. Use low pressure spraying equipment, brush or roll.

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

Flamespread: 35 Smoke Developed: 15 on wood

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.

Technical Support

Total Solids:	10%
Wt. Per Gallon	9 lbs.
Average pH:	5.0
Color:	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