Product Data Sheet

Residential & Commercial Fire Protection Applications

FLAME-BLOCK Of Kansas, LLC

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PO Box 531
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Chemical Name:

Flame Stop I-DS

Tested By:

U.S. Testing Company Inc., Omega Point Labs, Airline Fabricare, Buck-Eye Fabric Finishing Co.

Description:

Flame Stop I-DS is a **post-treatment** pyrolitic interior/exterior fire retardant penetrant. This product **dries clear**. This product is highly concentrated and has significant wetting properties. Flame stop I-DS was designed to penetrate and effectively fire retard open and closed cell structures. When the treated material is subjected to an open flame, the retardant will **pyrolitically self-extinguish fire** with **minimum smoke**. Flame Stop I-DS 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 I-DS should be used for interior and exterior applications such as: open and closed cell foams, foam rubber, nylon netting, exterior composition siding, thatching, bamboo, hardwoods, synthetic fabrics, plastics, and many other difficult to penetrate materials**.**

Technical Support

Total Solids:	**35%**
Wt. Per Gallon	**10 lbs.**
Average pH:	**4.7**
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**

Advantages:

Class A one coat system. Flamespread 10 on reed thatching. FAA certified. Since Flame Stop I-DS penetrates and becomes part of the substrate, the life of the flame retardancy is indefinite in most cases. All of our products were tested using single-coated materials. Flame stop I-DS has many uses and is our most concentrated fire retardant. Flame stop I-DS 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 wood. Flame Stop I-DS is often chosen because it is non-toxic, dries clear, easy (spray, brush or roll) application. Once cured (24 hours), 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-DS has been tested to the following standards: ASTM E-84, NFPA 255, NFPA 701, UL 723, US Testing Title 4 #LA63494 (Ether Foam), Omega Point Lab. #8924-89133, (Reed Thatching), FAR 25.853, (polyurethane Foam), CA Reg #C-14401.

Application:

All materials to be treated should be clean. Flame stop I-DS can be applied as is by spraying or immersing. A small test should be performed by the utilization of a small flame (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 test is similar to the small-scale NFPA field test). Apply to wood at the rate of 200 sq. ft per gallon, fabrics at 200-300 sq ft per gallon.

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

Flame Spread: 10 on reed thatching

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.