

# PRODUCT DATA SHEET

**FLAME STOP INC.**

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## CHEMICAL NAME:

**FLAME STOP I-DS**



## TESTED BY:

U.S. TESTING COMPANY INC., OMEGA POINT  
LABORATORIES, 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. 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 **simple to apply**.

## BASIC USES:

Flame Stop I-DS is 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.**

## ADVANTAGES:

**Class A one coat system. 10 flamespread 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**. I-DS 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: 110 degrees F. to 45 degrees F. Shelf Life: 3 years if kept within storage temperatures.

## APPLICABLE STANDARDS:

Flame Stop I-DS has been tested to the following standards:

ASTM E-84, NFPA 255, UL 723: U.S. Testing Title 4 #LA 63494 (Ether Foam), Omega Point Laboratories #8924-89133 (Reed Thatching) FAR 25.853 (Polyurethane Foam) CA Reg. #C-14401 NFPA 701

## 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" X 12" 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 701 field test) Apply to wood at the rate of 200 square feet per gallon

\*\*\*\*After treatment a minimum 24 hour conditioning period is necessary before testing\*\*\*\*

## FLAMESPREAD 10 on Reed Thatching

## WARRANTY:

This product is sold on condition that the user will evaluate them to determine their suitability for his purpose. Flame Stop, Inc. warrants that each quantity of Flame Stop I-DS 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

<i>Total Solids:</i>	35%
<i>Wt Per Gallon:</i>	10 lbs..
<i>Average pH:</i>	4.7
<i>Color:</i>	clear
<i>Solvents:</i>	water
<i>Bacterial:</i>	good resistance
<i>Fungus:</i>	good resistance
<i>Volatility:</i>	none
<i>Toxic:</i>	no
<i>Biodegradeable:</i>	yes
<i>Corrosive:</i>	mildly corrosive on unplated steel
<i>Linear Shrinkage:</i>	None
<i>Insects, Rodents and mold:</i>	Excellent Resistance