

FLAME STOP® I

PRODUCT DATA SHEET



DESCRIPTION:

Flame Stop I is a water-based, post-treatment interior fire retardant that penetrates the material and bonds with the cellular structure. The penetrant protects the substrate by developing a self-extinguishing reaction when the treated material comes in contact with an open flame. When applied correctly to certain natural and synthetic fabrics, the material shall have a class A rating. On porous woods such as pine or Douglas fir, the material shall have a class B rating. Flame Stop I was formulated with the user in mind because it is non-toxic, non-combustible, non-carcinogenic, easy to apply, and contains no PDBEs.

BASIC USES:

Flame Stop I protects the following materials: draperies, decorative fabrics, furniture, cotton, paper, polyester, cardboard, curtains, Douglas fir and many others. Materials must be evaluated for compatibility prior to application. The versatility of Flame Stop I makes it suitable for use in restaurants, hotels, hospitals, assisted living facilities, schools and commercial buildings, as well as personal residences.

ADVANTAGES:

Flame Stop I is a Class A, one-coat system on specific fabrics and Class B on Douglas fir with a flame spread of 35 and smoke developed of 15 according to independent third-party test reports. Since Flame Stop I penetrates and forms a molecular bond with the substrate, the life of the fire retardation shall be indefinite for most interior applications. Flame Stop I will not alter the structural integrity of the substrate or deteriorate because of its ability to penetrate. Treated fabrics may not be wet washed, but can be dry cleaned up to 15 times before reapplication is necessary. Numerous individuals and businesses choose this flame retardant because it is user friendly, dries clear, and can be easily applied by spraying, immersing, brushing, or rolling. Once cured for 48 hours on wood, the treated material may be painted with most latex based paints.

LIMITATIONS:

Storage Range: 45 – 110 degrees Fahrenheit (7 – 43 Celsius)
Shelf Life: Three years if kept within storage range.
A compatibility test is always recommended.
Do not wet wash.
Do not dilute.

TECHNICAL SUPPORT

Total solids: 10%

Wt per gallon: 9 Lbs.

Average ph: 7.0

Color: Clear

Solvents: Water

**Bacterial: Good
resistance**

**Fungus: Good
resistance**

Volatility: None

Toxic: No

Biodegradable: Yes

**Corrosive: Mildly corrosive
on unplated steel**

Linear shrinkage: None

**Insects, rodents
and mold: Excellent
resistance**

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APPLICABLE STANDARDS:

Flame Stop I has been tested to the following standards: ASTM E-84, NFPA 255, UL 723: U.S. Testing #LA 62192, CA Reg. #C-14401 NFPA 701; Registered with the CSFM for use on interior decorative materials only.

APPLICATION:

Ensure that all materials are clean prior to application. Apply Flame Stop I as is on fabric by spraying or immersing at the rate of 200 - 400 square feet per gallon depending on the density, thickness, and weave. If the material is thick or dense, both sides may need to be treated. If the material is synthetic, a heavier coat may be needed. Before proceeding with full application, test in an inconspicuous area to ensure the compatibility and that the color and hand are not affected. After application, there must be a 5 – 10% increase in the dry weight of the material. Apply at the rate of 200 square feet per gallon on wood by spraying, brushing, or rolling. If spraying onto a vertical surface where runoff could occur, multiple applications may be required. When applying multiple coats, wait until the first coat has penetrated before beginning the next application. One coat will require a 24-hour curing period. For spray application, use a .050 - .010 tip size and a low pressure airless sprayer.

**** After treatment a 48-hour conditioning period is necessary before testing ****

TESTING:

A small-scale test can be performed with the utilization of a sample of the treated material and a small flame (butane lighter or match). Hold a 4" x 12" piece of the treated material vertically and apply the flame to the lower portion for 10 seconds and then remove the ignition source. The flame must self-extinguish within two (2) seconds. This test is similar to the small-scale NFPA 705 field test.

FLAMESPREAD 35 AND SMOKE DEVELOPED 15 PER ASTM-E84 May, 2010



TESTED BY:
U.S. TESTING COMPANY INC. (SGS NORTH AMERICA)
OMEGA (INTERTEK) COMMERCIAL TESTING

C-14401

NOTES:



WARRANTY:

Seller's and manufacturer's only obligation shall be to replace such quantity of the product proved to be defective. Neither seller nor manufacturer shall be liable for any injury, loss or damage, direct or consequential, arising out of the use or the inability to use the product. Before using, user shall determine the suitability of the product for his intended use, and user assumes all risk and liability whatsoever in connection therewith.