

# FLAMEX PF-1 FIRE RETARDANT PRODUCT DATA SHEET



## DESCRIPTION:

Flamex PF-1 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. The highly concentrated Flamex PF-1 is designed to penetrate wood materials and effectively fire retard to a Class A rating.

Flamex PF-1 is non-toxic, non-combustible, non-carcinogenic, easy to apply, and contains no PDBE's.

## BASIC USES:

Flamex PF-1 protects interior wood and cellulose applications such as: paper, hay, straw, mulch, hard & soft woods.

## ADVANTAGES:

Flamex PF-1 is Class A system with a Flame Spread of 25 on wood. Since Flamex PF-1 penetrates and forms a molecular bond with the substrate, the life of the flame retardation shall be indefinite for most interior applications. Flamex PF-1 will not alter the structural integrity of the substrate, is user friendly, dries clear, and can be easily applied by spraying, immersing, brushing, or rolling. Once cured for 24 hours on wood, the treated material may be painted with some latex-based paints, call for details.

## LIMITATIONS:

Storage Range: 45 – 110 degrees Fahrenheit (7 – 43 Celsius)

Shelf Life: Three years, if kept within storage range.

A compatibility test is strongly recommended.

Moisture content of wood should be 5 – 15% before treatment.

Do not dilute.

## TECHNICAL SUPPORT

Total solids: 35%

Wt per gallon: 10 Lbs.

Average ph: 7.0 - 8.0

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:**

Flamex PF-1 has been tested to the following standards: ASTM E-84, NFPA 255, UL 723

## **APPLICATION:**

Ensure that all materials are clean prior to application. Apply Flamex PF-1 as is on wood by spraying or immersing. Apply at the rate of 125 square feet per gallon to all sides if possible. If spraying onto a vertical surface where run-off could occur, use lighter multiple applications. When doing multiple coats, wait until the first coat has penetrated before beginning the next application. The complete treatment will require a 24-hour curing period. For spray application, use a .005 - .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 such as a butane lighter. Apply the flame to one end of the treated material and hold until combustion and remove the ignition source. The flame should either self extinguish or burn at a very slow rate.

 TESTED BY:  
SGS LABORATORIES NORTH AMERICA

### **NOTES:**

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## **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.