



FIRE RETARDANT – NATURAL FIBERS

# FABRIC SEAL N™

## PRODUCT DATA SHEET

**Fabric Seal N™** Natural Fibers (FS-N) is an application ready, water based fire retardant designed for treatment of natural fabrics. FS-N is water borne mix of proprietary ingredients, which forms a carbon char when the treated fabric is exposed to fire. Once the carbon char is formed there will be minimal flame propagation, smoke evolution or afterglow. The product is designed for interior use only.

### APPLICATION

FS-N can be applied via spray, dipping or machine application. The recommended coverage rate is 300 ft<sup>2</sup> per gallon. Most natural fabrics properly treated with this product will meet the NFPA 701 requirements.

The mechanism by which FS-N works is that water-soluble fire retardant chemicals are carried into the fabric as a liquid and left behind upon evaporation of the water. As such, the fabric must be water penetrable to be treatable. Excess fire retardant may be removed by mechanical methods (wrings, rollers, spin cycle, etc.). However, the removal of excess liquid must be controlled so as to not remove too much liquid, or the fabric may become under-treated. Finish by simply allowing to air dry or force dry with heat.

It is recommended that a small sample be tested for penetration and color fastness before application. Excess fire retardant should be removed by mechanical action (wringing or spin cycle). Then allow to air dry or force dry with a mechanical dryer.

This product may be used on: cotton and natural fibers.

Fabric Seal N™ contains water-soluble ingredients that can be removed by exposure to significant amounts of water during cleaning. It is recommended that the fabric be re-treated with FS-N after dry cleaning three (3) times or one (1) machine washing.

### PACKAGING & HANDLING

FS-N is a liquid available various packaging sizes from a 1 gallon pail to bulk containers.

Fabric Seal™ may be electrolytically corrosive to some metals. Any tools or equipment that may be in prolonged contact with Fabric Seal N™ should be stainless steel, plastic, or should have a durable protective coating.

Refer to SDS for proper handling.

### STORAGE CONDITIONS

- Temp: 40 - 90 °F
- **Two year shelf life from manufacture date.**

### TYPICAL ANALYSIS

Total Solids	12 - 13%
Weight per Gallon	8.7 - 9.1 lbs
Specific Gravity	1.05 - 1.10
ph	5.5 - 7.0

Product contains no PBDE's (Polybrominated Diphenyl Ethers) or petroleum derivatives.

### WARRANTIES

Products are guaranteed to perform their fire retardant function as represented by third party tests, if applied according to manufacturer's published instructions. Products may not be diluted or altered prior to use.

\*There are no other warranties either expressed or implied since Flame Seal Products cannot control the actual application of the products. Users must determine usability and suitability for their particular requirements, as well as compatibility with the exact materials to be treated or coated.

**FLAME SEAL PRODUCTS, INC.**

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