

# FABRIC FIRE RETARDANT



## Product Description

The Fabric Fire Retardant treatment is a colorless liquid consisting of water and inorganic salts that render a fabric or water absorbent material flame retarded when dry. The product is environmentally friendly, has a faint odor during application but no odor when dry. The product does not cause marked levels of stiffening or discoloration of the fabric as and where application instructions are followed. Normal precautions are strongly advised such as testing on an unobtrusive portion of the material prior to application.

The product is designed to "fire retard" NOT fire proof fabrics that are constructed of percentage of natural fibers. If the proposed fabric to be treated has a high percentage or 100% of synthetic fibre content, contact Prudential Coatings - *do not apply the product until contact has been made!*

The method of application is dependent upon the type of material and the structure of the fibre to be protected. The quantity of Fabric FR required depends on the absorbency of the material, its inherent flammability and its overall weight. The only role of Fabric FR is to act as a flame retardant.

## Applications

Possible applications include:

- \* Households: Curtains & soft furnishings
- \* Hospitals & Clinics
- \* Public Office Buildings
- \* Theatres & Museums: Drapery & other fabrics
- \* Senior Citizen Homes
- \* Hotels & Convention Centers

Any place of public assembly that is required to be furnished with fire resistant materials/fabrics to protect the public and property against accidental ignition or arson. Ideal for use throughout the home. Do not apply to fabrics with a high content of synthetic fibres, contact Prudential Coatings for further advice.

## Use on fabrics

Fabric FR can be applied by mist spraying/coating a fabric as part of the manufacturing process or as an aftermarket (DIY) application.

Due to the wide variant of fabric treatments at the point of manufacture **ALL fabrics should be laundered prior to application of the product.** The fabric being treated should be made evenly damp on both sides (do not drench saturate or stiffening and surface marking may occur) and allowed to dry completely.

Fabric FR is provided in a ready to use form. **Do not dilute or mix with other products.** Always check the fabric for color-fastness and absorbency of the product prior to application works. If the product surface beads and does not soak into the fabric – **DO NOT APPLY!**

## Use on Cardboard

Corrugated "un-sealed" cardboard is best treated with a fine atomized spray on both sides. Do not soak material in any one spot, as this may tend to warp the cardboard and cause it to lose shape. The product will not work if the cardboard is sealed, coated or moisture proofed.

## User on paper and decorative materials:

Un-sealed paper should be **mist sprayed**. The water-soluble properties of Fabric FR may limit applications. Addition of a sealant is required to protect the chemical from leaching if exposed to water or high humidity.

## Soft furnishings – floor coverings

**Always clean** all such fabrics / floor coverings thoroughly prior to application.

**Do not apply** to fabrications that have had a **stain guard** treatment as the product will not be adopted into the fabrication

## **Skin Sensitivity**

In general terms the product does not generate skin irritations once applied and fully dried, however some more sensitive skin types may have the capacity to react when in direct contact with the product. Where sensitive skin issues exist, ALWAYS test for such sensitivity prior to application to such furnishings.

**Always vacuum the treated furnishing or floor covering surfaces** thoroughly once the product has been left to totally dry. This will not remove the treatment but lift residual product on the surface of the fabrication.

Sticky feel: Some fabrics may be left with a slight sticky/tacky feel after application. As and where this occurs vacuum all surfaces once totally dry.

## **Coverage**

Coverage is totally dependant on the fabric that is being treated. As such it is not possible to provide applications rates on a per square meter basis. Calculations should be done on a case by case basis.

Whenever possible treat fabrics so that the solution is evenly distributed across the entire surface and does not flow or drip to the extremes (do not over saturate). For the best effect, the fabric should be dried on a horizontal drying rack at a moderate temperature (between 20° and 30° C.)

## **Persistence**

Detergents and water will wash out the Fabric FR. Re-treatment after laundering must be carried out to maintain fire retardant properties.

Dry cleaning, extraction cleaning, steam cleaning or shampooing of any treated fabric or surface will wash out the Fabric FR and re-application will be necessary.

## **Applicator Cleaning and Care Instructions:**

After each days use, all spray equipment must be flushed out with clean warm water including the nozzle/trigger assembly.

Limitations: Fabric FR DOES NOT establish a total fire retardant performance on total synthetic fabrics and materials 100%. If in doubt contact Prudential Coatings prior to application works.

## **Safety**

Ensure Material Safety Data Sheets are read and understood by all users. Fabric FR is an aqueous solution of inorganic salts, chemically neutral or slightly alkaline with a pH value of 7-8. While it has very low toxicology, it should be kept out of the reach of children.

## **Testing Results**

Fabric FR has been tested to Australian Standards by Australian Wool Testing Authority (AWTA), a fully registered and certified Australian standards testing facility.

Tested to **AS1530-3 and 1530-2** Tests reports are available on request.

Results show "a high degree of flame resistance" on medium weight fabrics including:

Cotton - 100 %

Polyester/Cotton blend - 65/35 %

Hessian - 100%

***Disclaimer:** With Cease-Fire Technologies having no direct control over the end application of the product or alterations to the same, any advice or information is given in good faith, in the belief it is reliable. Cease-Fire Technologies accepts no responsibility or liability what so ever arising from the use of its products whether or not in accordance with any advice, information, recommendation, specification or service. It is always recommended that product is applied by suitably certified applicator, and that a certificate of application is obtained from the same.*

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