

FLAME SHIELD™



Features & Benefits

BR by Design's Flame Shield™ flame retardant finish reduces flammability and delays combustion. A flame retardant specifically designed for application to the surface of fabric, providing flame retardancy without adversely affecting the performance of the fabric.



There are two types of fire-retardant treatments:

Chemical Bath/Heat Set: Chemical dipping, which is more often used for fabrics. As the technique suggests, the fabric is soaked into a chemical solution which absorbs into the fibers. After being submerged the fabric goes through a set of press roller to ensure the chemical has been fully integrated into the fibers and to remove excess chemical. The fabric then passes through a heat set chamber to set the fire-retardant chemical. This process ensures the chemical is bonded onto the fabric fibers creating a barrier between the fiber and the flame.



Spray-on/Air-dried: Chemical is sprayed onto the textile/fabric until the fabric is completely saturated, thicker fabrics need a heavier coat of fire retardant and will often take double the drying time. Standard textile fabrics usually takes 8-24 hours to dry completely.



Should the fabric catch fire, the chemical applied during the fabric treatment process is activated by the heat, triggering a chemical reaction which extinguishes the flame or slows the burn.

Flame Retarding

There is a popular misconception that flame retarded fabrics should not burn. Treated fabrics will still burn, however, they do so in a controlled manner. Flame retarding is designed to reduce the spread of flame and the smoke developed. These factors can only be measured by the Australian Standards Procedurea.



Design

Choosing the right fire-retardant upholstery is a delicate balance between safety and design. Without a fire-retardant certificate, you may not meet safety standards, and result in you sacrificing your design. Why choose between form and function when you can have both?

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Features & Benefits (cont'd) + Safety

Types of Fabrics

We treat a wide variety of items including fabrics, window treatments and decorative design elements like wallpaper. Natural fiber fabrics, such as cotton, linen, silk, and wool; synthetic fibers like rayon and polyester and back-coated fabrics without adversely affecting the fabric's performance can be treated to meet all flammability standards.

Areas that require Fire Standards

Materials used in public places must meet certain flammability standards, required by governmental regulations.

- Health and Aged care,
- Schools, libraries, and Public spaces
- Theatres, convention halls and cinemas
- Hotels, Motels
- Offices

Cleaning

Flame Shield once applied via a HEAT SET method, binds to the fabric fibers. Treated fabrics can be washed up to five times in accordance with AS2001.5.4 procedure 7A of the Building Code of Australia. BR by Design recommends that FR treatments are reapplied after cleaning if an Air-Dried application was used.

Care Instructions

- Always check fabric care labels
- For spot cleaning first test on an inconspicuous piece using a diluted solution
- For upholstery, do not wet filling
- Professional cleaning is preferred

Safety Requirements

We provide a certificate of treatment on all fabrics that are finished with Flame Shield. We treat to two Australian standards, AS/NZS1530 1993 parts 2 and 3 with reference to the Building Code of Australia 2016 Amendment 1, specification C1.10 clause 7 and AS/NZS3837 reaching Group2, and the requirements as specified in C1.10 Clauses 4 & 6 of the building code of Australia.

Physical & Chemical Properties

Appearance	Clear Liquid
Odour	Odourless
Decomposition Temperature	Not available
Melting Point	0°C (approximate)
Boiling Point	100°C (approximate)
Solubility in Water	Miscible with water
Specific Gravity	1.13 (at 20°C)
pH	6.5 - 7.5
Flammability	Non-combustible liquid

Stability & Reactivity

Reactivity	Reacts with incompatible materials
Chemical Stability	Stable under normal conditions of storage and handling

As we do not have control over the future handling of products treated with Flame Shield, no responsibility is accepted in respect of the use and handling. B & R Converters has a responsibility to take reasonable care for our own health and safety, and the health and safety of other, who may be affected by our acts, or omissions.

PHONE: 02 9820 2155 EMAIL: sonia@brdesign.com.au