

# FIREPRO



FR29 DATASHEET – Nov 14

## FIRE PROTECTIVE BUILDING PRODUCTS

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Product specifications can change. Contact us to ensure you have our latest datasheet

## FR29 FIRE RETARDANT

Tested to AS1530 Parts 2 and 3

- I Highly Effective & Easy to use.
- I Long lasting treatment for interior use.
- I For natural and synthetic fibres.
- I Reduces flame spread and smoke.

FR29 is a highly effective, economical, easy to use fire retardant. It has been used in New Zealand since 1988. FR29 was formulated primarily for fire protecting, to AS1530:3, carpet used on walls in passageways and lifts in hotels and institutional buildings and cotton, acrylic cotton blend, and hessian fabric draped from ceilings and walls in restaurants, and exhibitions, etc where fire testing to AS1530:2 is required.

Practical burning experiments have also shown FR29 to be effective on other natural materials such as coir, and paper and many synthetic materials.

FR29 has been used in a vast range of situations in New Zealand, Australia, Pacific Island nations, ships, and the US Antarctica bases. Many uses fall outside building act requirements, for example for actors paper "prompt" sheets. It has even been used in one New Zealand city for protecting the fibrous trunks of palm trees growing in city streets from arson attempts, for protecting thatched roofs in exhibitions and hay bales at barn dances, straw used christmas nativity displays.

**Note:** FR29 is designed to prevent spread of flame. It does not stop fabric being damaged when exposed to flame.

### FIRE TEST DATA

Test Standard	Test Number	Material Tested	FR29 Litres/M <sup>2</sup>	Test Result
AS1530:3	APL8845	Carpet 20% Nylon, 80% Wool	0.45	spread of flame 0 smoke developed 5
AS1530:2	Branz FF1558	Cotton fabric 221g/M <sup>2</sup>	0.06	flamability 1
AS1530:2	Branz FF1539/2	Acrylic 65%, Cotton 35% 444g/M <sup>2</sup>	0.20	flamability 1
AS1530:2	Branz FF1539/4	Hessian 381g/M <sup>2</sup>	0.20	flamability 1

FR29 is a highly effective Fire Retardant for use on a wide range of products including: Curtains & Drapes, Rugs & Carpets, Upholstery, Dried Flowers, and Coir Fibre. For furnishings and drapes in: Homes, Hotels, Theatres, Restaurants, Offices, Boats, Nursing Homes, Caravans, etc.

**NOTE:** The technical information and suggestions for use and application presented herein represent the best information available to us and are believed to be reliable. If used beyond the situations detailed on this datasheet we advise confirming their suitability before installation. All dimensions are nominal.

**We reserve the right to make changes or to withdraw designs and products without notice.**

### APPLICATION

Test the fabric for compatibility with FR29. The fabric must be clean and new. Some fabric may stain. Shake the FR29 bottle to ensure that the ingredients are well mixed.

Apply FR29 by brush or spray. A simple garden spray is adequate for most applications. After application wash spray equipment thoroughly in water.

Should FR29 be accidentally swallowed induce vomiting and call a doctor.

### VOLUME TO APPLY

Variations in the rate of absorbability, fabric weight and type of fibre used make it impossible to give exact measurements of the amount of FR29 to be applied, except for the materials fire tested. Independent fire tests and in-house experiments indicate the use of 0.1 Litres per M<sup>2</sup> on light to medium weight absorbent fabrics such as cotton curtains, paper and artificial flowers. Products such as Hessian, Coir, Canvas and heavy Drapes have an indicative requirement of 0.2 Litres/M<sup>2</sup>. As a general rule 0.1 Litres of FR29 per 100grams of fabric with a minimum of 0.1 Litres per M<sup>2</sup> will give good results.

### DURABILITY

FR29 is a water borne formulation that clings well to most natural fibres. Multi-washing may gradually reduce effectiveness, but regular washing will not usually occur in the situations where FR29 has been fire tested to AS1530 parts 2 & 3.

When used in other situations FR29 may need periodic re-application. To assess if this is necessary, burn a small sample holding above a normal size wooden lighted match. Once the match has extinguished the flame on the treated cloth should also extinguish within a few seconds.