



TIMBER FIRE RETARDANT SYSTEM

Application Instructions

Compliance to AS 3959 code, please note:

The Cease Fire Timber FR System complies with the AS 3959 Bushfire code up to the 29 KW risk level BAL – 29. There are no fire retardant or paint products that meet the requirements of BAL (Bushfire Attack Level), BAL - 40 or BAL – FZ.

The Timber FR Paint System has been specially developed to meet the performance requirements called for in AS 3959 relating to “Fire Retardant Timber”, as defined in AS/NZS 3837 and the weather accelerated weathering durability test, ASTM D 2898 Method B (copies of test results available on request). The Timber FR is a Four (4) stage paint system, consisting of a primer; intumescent fire retardant coat; clear sealer and high quality top coat (which can be tinted to a wide range of exterior colours and is available in Gloss or Low sheen with all major tinting bases). All four individual components MUST be used as directed for compliance to the AS 3959 Bushfire standard.

As the product fire tests were conducted on standard radiata pine, which is the easiest species to burn (having a very light density), the results may be directly applied to most other, higher density, timber species.

If the proposed work requires BCA building fire standards approval/sign off, under AS 3959, we strongly recommend consultation with whoever is going to be approving/signing-off the work (e.g. Councils, Certifiers, Building Surveyors and Fire Service personnel) for a project specific approval prior to product purchase and application of the product.

WARRANTY WARNING

The Timber FR System is designed for raw unsealed timber surfaces only and whilst application to any other surface/substrate is not covered under product warranty it is possible to apply the system on top of previously painted surfaces, given appropriate preparation. As the origin of Australian timbers and knowledge of their pre-sales treatment cannot be certain, it is strongly recommended that product is always applied to a ‘test patch’ in the first instance, to verify expected adherence and water resistance prior to total job application. If application is proposed on surfaces other than raw soft wood timbers always check with Prudential Coatings Pty Ltd directly prior to purchase.

APPLICATION & COVERAGE

- All coverage rates are approximate and dependent on method of application.
- Airless spray is the preferred method of application. It will give a consistent and even film build. Product may also be rolled or brushed on.

Step No	Coating	Wet film thickness (microns)	Volume (% solids)	Dry film thickness (microns)	Coverage	Approx. No. coats
1	Timber FR Primer	85µ	39	32µ	10 m ² /litre	1
2	Timber FR Fire Retardant	700µ	50	350µ	1.4 m ² /litre	3-4
3	Clear Sealer	85µ	38	32µ	15 m ² /litre	1
4	Top Coat	170µ	39	65µ	10 m ² /litre	2

Product Description

All products in the 'system' share the following qualities and observations:

- Water Based – clean up with water
- Non-toxic – non-flammable - low VOC
- Lead free - providing a safe coating when dry
- Easy to apply without messy spatter
- Stir well using a broad flat paddle in a scooping motion
- Apply by brush, good quality roller, airless or conventional spray
- Observe the Spray Painting regulations that apply in your State
- Suitable for exterior or interior timber surfaces
- Special formulation, designed as part of a 4 part Timber FR coating system
- Do not paint if temperature is below or likely to fall below 10°C or if humidity exceeds 80%
- Do not paint if rain is present or expected. Also avoid painting in hot, dry conditions
- In damp, cool or humid conditions, dry time will need to be extended
- Do not thin this product, as is it specially designed to meet the relevant fire tests
- Environmentally friendly - dispose of waste using authorized collection procedures

Safety

- Ensure good ventilation during application and drying
- Do not breathe vapour or spray
- Do not smoke during application
- Wear eye protection
- Refer to the product Material Safety Data Sheet for full information
- Keep out of the reach of children

Product specific information for each of the four stages

1. Step 1 – (Part 1 of 4 part system) Timber FR Primer (1 Coat, 85µ WFT)

- Specially designed for use directly on timber to prevent tannin stains and give long lasting performance
- May also be used as a primer over existing paint (See Surface Preparation)
- Re-coatable the same day with Timber FR Fire Retardant (step 2)
- Colour - white

Surface Preparation

For new Timber

- Fill any holes with filler and allow to dry
- Sand and remove any dust
- Ensure surface is clean, dry and free of grease, oil and wax

For existing Painted surfaces

- Remove all soft, powdered, blistered, loose or flaking paint. Sand all surfaces to ensure good adherence is achieved
- Clean and repair as for new timber
- Ensure that all mould or fungal infected surfaces are treated to eliminate the possibility of recurrence

Application

- Apply one coat allowing for coverage of 10 mtrs² per litre (total Wet Film Thickness (WFT) of 85 microns required)
- Allow to dry for two hours. High humidity or rain conditions may extend dry times - always ensure the coating is totally dry before over-coating with first coat of Timber FR Fire Retardant
- Shelf life 24 months, if correctly stored in a dry, cool and sheltered location

2. Step 2 – (Part 2 of 4 part system) Timber FR Intumescent fire retardant coating (3 - 4 coats, 700µ total WFT)

MUST be top sealed with Timber FR sealer.

Contains:

Non Lead pigment
Modified Acrylic Polymer resin binder
50% Solids (White) by volume

Airless Spray Information

- Airless spray gun is the preferred method of application, rate of 3000 psi with 25-30 thou. tip recommended
- Contractors should satisfy themselves on application rates subject to job in hand
- Net coverage at the required 700 Wet film micron build is 1.4 Mtrs² per Ltr
- Coverage will vary depending on the profile of the surface and application method
- Total Wet Film Thickness (WFT) of 700 microns required (3 – 4 coats) dependant on application method

Application Notes

- This product must be applied to totally dry primer and each coat of Fire Retardant (and clear sealer) must be applied only when the previous coat is TOTALLY DRY irrespective of drying duration
- Recoat after 4 – 5 Hrs. @ 25°C with good air ventilation
- In damp, cool or humid conditions, dry time will be extended - ALWAYS ALLOW TO DRY TOTALLY. Do not paint if temperature is below, or likely to fall below, 10°C. Do not apply if rain is expected or in hot dry conditions. Once applied the Fire Retardant PART 2 should not be exposed to rain, water or high humidity prior to the application and drying of the clear sealer coat (part 3). The sealer should be applied immediately after the Fire Retardant is totally dry, as the fire retardant product is very hygroscopic
- The Part 2 fire retardant is NOT UV Resistant and should not be exposed to UV impact for long periods - it is the sealer and the top coats that provide the long term durability of the system
- Shelf Life 6 months, if correctly stored in a dry, sheltered location with a storage temperature of 25°C. Due to the complex nature and formulation of the Timber Fire Retardant (Part 2) this product will naturally thicken in the can over time. It is advisable to purchase this product within weeks of the application work, as thickened product does not qualify for product warranty or claims. Date of dispatch from factory is clearly stated on the can

3. Step 3 – (Part 3 of 4 part system) Clear Sealer Coat (1 Coat, 85µ WFT)

This clear product is designed to be applied over the final coat of the Part 2 Fire retardant to 'seal it in' prior to application of the 2 Top Coats.

Contains:

Non Lead pigment
Modified Acrylic Polymer resin binder
33% Solids (Clear) by volume

Application

- Apply first coat by brush or roller
- Allow to dry TOTALLY, PRIOR TO NEXT APPLICATION irrespective of drying duration
- Over-coat after 3 Hrs. @ 25°C with good air ventilation
- Shelf Life 6 months, if correctly stored in a dry, sheltered location with a storage temperature of 25°C. WARNING - Do not store in roof space or areas where temperature may exceed 40°C



4. Step 4 - Part 4 of 4 part system (2 Coats, 170µ WFT) Timber FR Topcoat

This top coat gives long lasting protection against severe outdoor weather conditions, recoats in 2 hours and resists mould and fungal growth.

Contains

Pigment: Non Lead and extremely durable

Resin Binder: Acrylic Polymer

Volume: Solids 40% (White) – Varies dependant on colour

Toxicity: Dry paint is non-toxic. Conforms to AS1647, Part 3

Application

- Ensure PART 2 Fire Retardant coating is totally dry prior to top coating works
- Apply 2 coats for optimum coverage
- Coverage Approximately 10 m² per litre (5 for total required coverage). Coverage will vary depending on the profile of the surface
- Touch dry 20 minutes subject to weather conditions
- Recoat 2 Hrs. @ 25°C with good air ventilation; always allow to dry fully prior to recoating
- Colour; White – can be tinted to a large range of colours, in Gloss or Low Sheen
- Shelf Life 24 months, if correctly stored in a dry, cool and sheltered location

Disclaimer: As Prudential Coatings Pty Ltd have no direct control over the initial state of surfaces to be coated; the quality of application or future surface care practices of the products, any advice or information is given in good faith, in the belief it is reliable. Prudential Coatings Pty Ltd accepts no responsibility or liability arising from the use of its products whether or not in accordance with any advice, information, recommendation, specification or service.

If the system is applied by any other party than that of a Prudential Coatings Certified Applicator no warranty in any form is offered.