

PRODUCT DESCRIPTION

Fireshield TimberWhite^{2FR} is a waterborne, halogen free, intumescent coating with a matt white finish, designed for use on interior surfaces of wood-based substrates.

CONDITIONS OF USE:

Fireshield TimberWhite^{2FR} is an industrial product and can only be applied by Accredited Applicators.

This product provides the following Group Ratings for internal timber wall and ceiling surfaces:

New Zealand **Group 1-S**

Sequence of required coatings for **standard installation:**

1. Fireshield TimberWhite^{2FR} basecoat.

Sequence of required coatings when used in areas where constant air humidity is over 75% or when a washable surface is required:

1. Fireshield TimberWhite^{2FR} basecoat.
2. Fireshield approved top coat.

- The timber substrate moisture content must be no greater than 15%.
- Fireshield TimberWhite^{2FR} should not be used in areas where it could be exposed to high humidity or prolonged moisture contact without a top coat.
- All timber surfaces must be coated with the correct film thickness as scheduled to achieve the required Group Surface rating.
- Timbers that are prone to leeching or furring may benefit from a primer coat first.
- Compatibility with any previously applied product is checked before application of this product.

MAXIMUM FILM THICKNESS:

At +23°C and 50% relative humidity the recommended wet film thicknesses required will be achieved in one coat with an airless spray unit.

NOTE: Maximum film thickness may be reduced by poor air flow and environmental conditions differing from those listed above, which are a guide only. Contact Fireshield for more information.

PRIMERS:

Fireshield TimberWhite^{2FR} can only be applied over Fireshield approved primers. For the Approved Primers list go to www.fireshieldcoatings.com.

TOPCOATS:

Fireshield TimberWhite^{2FR} can only be top coated with Fireshield approved top coats. For the Approved Top Coats list go to www.fireshieldcoatings.com.

LIMITATIONS:

- For interior use only.
- Do not use in external applications!
- The timber substrate must be 8mm or thicker and a density $\geq 338\text{kg/m}^3$.
- The Fireshield TimberWhite^{2FR} system will take 3 weeks (21 days) to fully cure.

TECHNICAL INFORMATION

STORAGE CONDITIONS:

Recommended storage conditions:

- Store at a temperature above +5°C and below +35°C
- Store indoors and undercover in temperate conditions.
- Store away from direct sunlight, do not expose to extreme heat.
- Do not allow to freeze.
- Keep containers closed when not in use.
- **Keep out of reach of children!**

SHELF LIFE:

12 months at +25°C if stored in original sealed containers under recommended storage conditions listed above.

SPECIFIC GRAVITY:

1.3 ± 3%

NON-VOLATILE CONTENT:

70% ± 2%

VISCOSITY:

High viscosity

FLASH POINT:

Non combustible

VOC:

<20 grams/litre

COLOUR:

Matt White

PACKAGING:

Weight 12.5 kg / Volume 9.6 litre approx.

MIXING:

Mechanically mix. **DO NOT THIN!**

CLEAN UP:

Warm potable, soapy water.

COMPLIANCE

Group 1-S (NZ) the required minimum film

FILM THICKNESS:

thickness are in the following table:

NO PROTECTIVE APPROVED TOP COAT REQUIRED:

DRY FILM	WET FILM	GRAMS/ m ²
160µm DFT	230µm WFT	300 grams

WITH APPROVED PROTECTIVE TOP COAT:

DRY FILM	WET FILM	GRAMS/ m ²
215µm DFT	310µm WFT	400 grams

DRYING TIMES:

At a minimum air temperature of +23°C and relative air humidity of 50% the following drying times are applicable:

- 4 hours between coats of TimberWhite^{2FR}; and
- 12 hours minimum before top coating with Fireshield approved top coat.
- **Do not overcoat if not dry!**

NOTE: Dry times may be lengthened by poor air flow and environmental conditions differing from those listed above, which are a guide only. Contact Fireshield for more information.

Application should not take place in conditions which are deteriorating, e.g. the temperature is falling or there is a risk of condensation forming.

APPLICATION NOTES

The product must be applied in strict accordance with the Fireshield Application Instructions. In particular the applicator should ensure:

- The surface to be coated is completely clean and dry. Remove all dust, oil, grease, loose material or other contaminants.
- The product is occasionally stirred while using.
- Application occurs using suitable equipment for the substrate, working conditions and desired finish.

PRECAUTIONS:

The following precautions must be taken:

- Read the Fireshield TimberWhite^{2FR} Material Safety Data Sheet (MSDS) before application and have a copy available on site at all times. Pay particular attention to Hazard Statements and PPOE requirements.
- Read the Fireshield Application Instructions in full before application.
- All work involving the application and use of this product should be compliant with all relevant National Health, Work Safety & Environmental standards and regulations.
- Where conditions may require variation from the recommendations on this Product Data Sheet contact Fireshield for advice prior to painting. Do not apply in conditions outside the parameters stated in this document without the express written consent of Fireshield.

ENVIRONMENT:

During application and curing day or night ensure that:

- The air temperature is above +10°C.
- The relative air humidity level is below 75%.
- The area is well ventilated with constant air flow.

During application or curing protect from wetting/moisture/condensation and human impact.

APPLICATION METHOD:**AIRLESS SPRAY:**

Airless spray with an inline heater gives the best result. (heater maximum temperature +35°C)

BRUSH:

Brush application only suitable for small areas or touch-up and may result in a textured finish. Care must be taken to achieve the required specified dry film thickness. Typically, 100-300 microns(µm) can be achieved.

ROLLER:

Roller application only suitable for small areas or touch-up and may result in a textured finish. Care must be taken to achieve the required specified dry film thickness. Typically, 100-300 µm can be achieved.

For full application instructions see the Fireshield Application instructions

MAINTENANCE:

The system has the ability to resist minor contact with moisture, impact and abrasion however, excessive wear or moisture contact may damage the system and if so, require inspection and possible remediation.

The TimberWhite^{2FR} maintenance document is provided as guidance and is broken into two areas:

1. Minor damage to the coating system that does not affect compliance and the repair is optional.
2. Major damage to the coating system that does affect compliance and must be remediated immediately.

A copy of the Maintenance Guide is available from Fireshield and should be left with the Main Contractor or Client for future reference on site.

COMPLIANCE:**NEW ZEALAND:**

Tested to EN13501-1:2010 and achieves Fire Class B-s1-d0. This is recognised as equivalent to Group 1-S under the NZBC Clause 3.4(a) providing compliance with NZBC C/AS1-C/AS7.

SUPPLIER:**AUSTRALIA**

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NEW ZEALAND

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