

PRODUCT DESCRIPTION

Fireshield® TimberClear ^{1FR} is a clear, waterborne, halogen free intumescent coating designed for use on interior surfaces of wood-based substrates and is the initial coating of a two-coat system. Following the initial coat of Fireshield TimberClear ^{1FR} a second coat of Fireshield TimberClear Top Coat Matt or Semi-gloss must be applied to complete the overall fire protection coating system.

CONDITIONS OF USE:

Fireshield TimberClear^{1FR} 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:

Australia	Group 1
New Zealand	Group 1-S

Sequence of required coatings:

1. Fireshield® TimberClear ^{1FR} basecoat
 2. Fireshield® TimberClear Top Coat Matt or Semi-gloss.
- The timber substrate moisture content must be no greater than 15%.
 - Fireshield TimberClear ^{1FR} should not be used in areas where it could be exposed to high humidity or prolonged moisture contact.
 - 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 clear primer coat first.
 - Compatibility with any previously applied product should be checked before application of this product.

MAXIMUM FILM THICKNESS:

At 23°C and 50% relative humidity, the recommended 230µm wet film thickness 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.

CLEAR PRIMERS / STAINS:

Fireshield® TimberClear ^{1FR} can only be applied over Fireshield approved clear primers and stains. For the Approved Clear Primers and Stains list go to www.fireshieldcoatings.com.

TOPCOATS:

Fireshield® TimberClear ^{1FR} is only compatible with Fireshield® TimberClear Top Coat Matt or Semi-gloss provided by Fireshield.

LIMITATIONS:

- **For interior use only.** Do not use in external applications!
- Care should be taken to avoid overlapping the coating during application to achieve a uniform finish.
- The wood-based substrate must be 8mm or thicker and have a density $\geq 338\text{kg/m}^3$.
- The Fireshield TimberClear^{1FR} system will take 3 weeks (21 days) to fully cure.

TECHNICAL INFORMATION

STORAGE CONDITIONS:

- Recommended storage conditions:
- Store at a temperatures 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

NON-VOLATILE CONTENT: 63% ± 3%

VISCOSITY: High viscosity

FLASH POINT: Non combustible

VOC: <40 gram/litre

COLOUR: Clear

PACKAGING: Weight 12.5 kg/ Volume 9.6 litre approx.

MIXING: Mechanically mix. **DO NOT THIN!**

CLEAN UP: Warm potable, soapy water.

COMPLIANCE FILM THICKNESS: For Group 1 (Australia) and Group 1-S (NZ) the required minimum film thickness are in the following table:

DRY FILM	WET FILM	GRAMS/ m ²
150µm DFT	230µm WFT	300 grams

DRYING TIMES:

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

- 8 hours between coats of TimberClear ^{1FR} and
- 48 hours minimum before top coating with Timberclear Top Coat Matt or Semi-gloss
- **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® TimberClear^{1FR} Material Safety Data Sheet (MSDS) before application and have a copy available on site at all times.
- 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 Technical 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 TimberClear^{1FR} 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:**AUSTRALIA:**

Codemark Certificate of Conformity # GM-CM30071-Rev A providing compliance with the NCC 2016.

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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CODEMARK[®]
 Australia

Certificate GM-CM30071-Rev A



It is the user's responsibility to check that you have the latest technical datasheet available by visiting fireshieldcoatings.com or checking with your local Fireshield Representative as the information contained in this technical data sheet is modified from time to time in line with our policy of continuous product development. The information in this data sheet is not intended to be exhaustive; any person using the product for any purpose other than that specifically recommended in this data sheet does so at their own risk. All advice given or statements made about the product (whether in this data sheet or otherwise) are correct to the best of our knowledge, Fireshield has no control over the quality or the condition of the substrate or the many factors affecting the use and application of the product. Therefore, unless we specifically agree in writing to do so, we do not accept any liability at all for the performance of the product or for (subject to the maximum extent permitted by law) any loss or damage arising out of the use of the product. Fireshield hereby disclaim any warranties or representations, express or implied, by operation of law or otherwise, including, without limitation, any implied warranty of merchantability or fitness for a particular purpose. You should request a copy of this document and review it carefully.