

TimberWhite

White Pigmented Intumescent Coating For Interior Timber Surfaces

PRODUCT INFORMATION

DESCRIPTION

Fireshield® TimberWhite is a waterborne, halogen free, intumescent coating with a matt white finish, designed for use on **interior** surfaces of wood-based substrates.

RECOMMENDED USE

Fireshield® TimberWhite is an industrial product and can only be applied by Registered Applicators. This product provides the following New Zealand Building Code and Australian NCC 2019 Group Rating for internal timber based substrate wall and ceiling surfaces:

New Zealand	Group 1-S
Australia	Group 1

See the TimberWhite Application Guide for further information, in particular:

- The timber substrate moisture content must be less than 15%.
- 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 grain raise may benefit from a primer/stain blocker coat first.
- Compatibility with any previously applied product should be checked before application of this product.
- See Fireshield® Maintenance Guide for aftercare.

Maximum film thickness

At 23°C and 50% relative humidity, the recommended 230µm or 310µm 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.

PRIMERS/UNDERCOATS

Fireshield® TimberWhite can only be applied over Fireshield® approved primers. For the approved list go to fireshieldcoatings.com.

TOPCOATS

When a coloured or more durable surface is required, Fireshield® TimberWhite can be top coated with Fireshield® approved top coats. For the approved list go to fireshieldcoatings.com.

LIMITATIONS

- For interior use only in dry zones/areas. Contact Fireshield® for C2/C3 interior zone requirements. **Do not use in external applications!**
- The wood-based substrate must be ≥ 8mm or thicker and have a density ≥ 338kg/m³.
- Airless spray for best results.
- Intumescent coatings require an expansion gap of 50 x the dry film thickness from the coated surface to any solid surface.

SHELF LIFE

12-months at +25°C if stored in original sealed containers under recommended storage conditions listed on this TDS. Do not use product that is beyond the Manufacturers shelf life date shown on the bucket. Contact Fireshield® if in doubt.

ENVIRONMENTAL

Fireshield® Timber White has Declare status and is Red List Free issued by the International Living Futures Institute.

TECHNICAL INFORMATION

Specific gravity	1.3 ± 3%
Non-volatile content	70% +/- 2%
Flash point	Non combustible
Viscosity	High viscosity
Colour	White
Packaging	9.6 litre / 12.5kg weight approx.
Mixing	Mechanically mix.
Thinning	DO NOT THIN!
Clean up	Water
VOC	< 20 grams/litre

COATING THICKNESS to achieve Group 1-S / GROUP-1

Minimum No Top Coat	Minimum With Approved Top Coat
≥ 230 microns WFT	≥ 310 microns WFT
≥ 160 microns DFT	≥ 215 microns DFT
≥ 300 grams/m ²	≥ 400 grams/m ²

DRYING TIMES

The following drying times have been measured with a wet film thickness of 230µm:

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 and
- 12 hours minimum before top coating with a 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.

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**

APPLICATION NOTES

The product must be applied in strict accordance with the Fireshield® application instructions. In particular the Applicator should ensure:

- Ensure the timber substrate is $\geq 8\text{mm}$ or thicker and has a density $\geq 338\text{kg/m}^3$
- 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.
- Fill out Daily Record Sheets and PS3/Statement of Construction for compliance sign off at the conclusion of coating process.

PRECAUTIONS

The following precautions must be taken:

- Read the Fireshield® TimberWhite Material Safety Data Sheet (MSDS) before application and have a copy available on site at all times.
- Read the Fireshield® Timber Application Guide 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®.

APPLICATION ENVIRONMENT

During application and during drying period, day or night ensure that:

- The air temperature is above $+10^\circ\text{C}$ and below $+35^\circ\text{C}$.
- The relative air humidity level is below 75%.
- The area is well ventilated with constant air flow.

During application or drying protect from wetting/moisture/condensation and human impact. Electric heaters and dehumidifiers should also be used to help control the environmental conditions if necessary.

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. A copy of the Maintenance Guide is available from Fireshield®.

SUPPLIER : FIRESHIELD

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Manufactured by:



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.

APPLICATION METHOD

Airless Spray

Airless spray is the recommended method of application and gives the best result. Airless spray with a heated hose or in-line heater (maximum temperature $+30^\circ\text{C}$) can be used to assist application in the minimum environmental temperature range.

Airless Equipment Recommendations

Pump flow rate	5 litres per minute e.g Wagner/Graco MkV
Hose Diameter	Dedicated hoses not below 3/8"
Spray Tip	Orifice size range of 511 to 517 tip size. Choose appropriate fan width depending upon substrate) to be coated $30^\circ - 60^\circ$
Atomising Pressure	2,200 - 3300 psi
Heated hose or in-line Heater	Can be used in colder conditions to maintain product at room temperature to a maximum of $+30^\circ\text{C}$.

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

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.

COMPLIANCE

New Zealand: Tested to EN13501-1:2018 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

Australia: Codemark Certificate of Conformity CM-30071 providing Group 1 surface rating and compliance with the NCC 2022 C1P4 for Class 2-9 Buildings. See the Codemark certificate for all conditions relating to a compliant application and installation.

WARRANTY

12-month Manufacturers shelf life warranty applies to product within the shelf life period. For a project specific warranty contact Fireshield® prior to project commencing.



Declare.