



TIMBERCLEARTopcoat

Clear lacquer sealer for Fireshield® TimberClear basecoat.

PRODUCT INFORMATION

DESCRIPTION

Fireshield® TimberClear Top Coat is the second coat of the full TimberClear fire rated system for interior timber surfaces. It is a clear, single pack solvent top coat sealer, designed for use over the Fireshield® TimberClear intumescent basecoat.

The full Fireshield® TimberClear system consists of two products, both must be installed to complete the fire rated system:

- TimberClear Intumescent Basecoat and;
- TimberClear Top Coat Matt or Semi Gloss.

INSTALLATION ENVIRONMENT

The full Fireshield® TimberClear system can be installed in dry interior building zones with heated or air conditioned, clean C1 atmospheres (ISO 12944-2).

GLOSS LEVELS

Fireshield TimberClear Top Coat is available in two gloss levels:

1. Matt Low Sheen (7 GU at 60°)
2. Semi Gloss (20 GU at 60°)

RECOMMENDED USE

- Fireshield® TimberClear Top Coat provides a sealing coat to protect the TimberClear intumescent basecoat.
- Fireshield® TimberClear Top Coat is an industrial product and can only be applied by Fireshield® Registered Applicators.
- The Fireshield® TimberClear system provides a certified Group 1-S fire rated surface finish.

MAXIMUM FILM THICKNESS

At 23°C and 50% relative humidity, the minimum 70µm wet film thickness required will be achieved in one coat with an airless spray unit.

NOTE: Fireshield® TimberClear Top Coat Matt or Semi Gloss is designed to seal and protect the Fireshield® TimberClear intumescent basecoat from impact and moisture. Ensure a full and uniform coat is applied to a minimum 70µm wet film thickness to the entire area.

TOPCOATS

Fireshield® TimberClear Top Coat is not compatible with any other top coat. Any approved stain used with the system must be applied directly to the timber surface.

LIMITATIONS

- Fireshield® TimberClear Top Coat can only be used in conjunction with the Fireshield® TimberClear basecoat.
- Do not use in external applications!
- Ensure there is no contamination, water or moisture in the airless pump unit when spraying the TimberClear Top Coat as this will cause permanent blotching to the basecoat that may not be immediately visible.
- Ensure environmental conditions listed are maintained to avoid blotching or a milky appearance.

SHELF LIFE

Minimum 12-months when stored in conditions listed on this technical datasheet in original sealed containers, product is subject to re-inspection thereafter as shelf life is not an expiry date.

TECHNICAL INFORMATION

Specific gravity	1.05 + 1%
VOC	499 grams/litre
Flash point	20°C
Colour	Clear
Packaging	5 litre.
Mixing	Thorough mechanical stir.
Thinning	Max 10 to 20% using Fireshield Thinner, increase WFT accordingly.
Clean up	Fireshield® Top Coat Thinner

COATING THICKNESS

Minimum WFT	> 70 microns WFT
Minimum DFT	> 30 microns DFT
Minimum grams/m ²	> 70 grams/m ²

DRYING TIMES

The following drying times have been measured with a wet film thickness of 70µm:

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

- 2 hours touch dry and
- 8 hours minimum to handle.

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!

WARRANTY

Project specific product warranties are available if required, contact Fireshield for more details.

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.
- 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® TimberClear Top Coat 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 and avoid inhaling vapours when handling. Avoid contact with skin and eyes and ensure adequate ventilation.
- 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, drying and curing, day or night ensure that:

- The air temperature is above +10°C and below +35°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 can also be used to help control the environmental conditions if necessary.

SUPPLIER : FIRESHIELD

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APPLICATION METHOD

AIRLESS SPRAY

Airless spray is the recommended method of application and gives the best result.

Airless Equipment Recommendations

Pump flow rate	5 litres per minute e.g. Wagner/Graco Mk V
Hose Diameter	Dedicated hoses not below 3/8"
Spray Tip	Orifice size range of 412 to 413 tip size. Choose appropriate fan width depending upon substrate) to be coated 30° - 60°
Atomising Pressure	1,885 - 2610 psi

NOTE: Ensure there is no contamination, water or moisture in the airless pump unit when spraying the TimberClear basecoat or the TimberClear Top Coat as this will cause permanent blotching to the basecoat that may not be visible. Ensure environmental conditions listed are maintained to avoid blotching or a milky appearance.

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, 100-300µm can be achieved per coat.

ROLLER

Roller application not advised, if used 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, 100-300µm can be achieved per coat.

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.

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 CP14 for Class 2-9 Buildings. See the Codemark certificate for all conditions relating to a compliant application and installation.



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.