

TIMBERONE Topcoat

Clear topcoat sealer for the TimberOne intumescent basecoat.

PRODUCT INFORMATION

DESCRIPTION

The Fireshield® TimberOne system provides a translucent finish designed to reduce the yellowing of light coloured timbers while highlighting the natural grain. It provides a certified Group 1-S fire rating on interior timber surfaces such as pine, CLT, birch and spruce panels, boards and battens.

The full Fireshield® TimberOne system is a fully waterborne intumescent coating system consisting of two products:

- TimberOne Intumescent Basecoat and:
- TimberOne Top Coat.

The full Fireshield® TimberOne system can be installed in dry interior building spaces with uncontrolled atmospheres up to C3 Interior (ISO 12944-2) zones and include the following :

- The constant relative humidity is >75% or
- When a wipeable surface is required.

Fireshield® TimberOne Top Coat is a clear sealer and is only available in a matt finish (7 GU at 60°)

RECOMMENDED USE

Fireshield® TimberOne Topcoat is an industrial product and can only be applied by Registered Applicators, in particular:

- Fireshield® TimberOne Topcoat provides a sealing coat to protect the TimberOne intumescent basecoat.
- All timber surfaces must be coated with the correct film thickness as scheduled to achieve the required Group Surface rating.
- The recommended 100µm wet film thickness for TimberOne top coat can be achieved in one coat with an airless spray unit.
- For best results do not exceed the recommended film thickness.

PRIMERS/STAINS

Not recommended for use with any primers or stains.

TOPCOATS

Fireshield® TimberOne Top Coat matt is only compatible with the Fireshield® TimberOne intumescent basecoat to complete the full system provided by Fireshield.

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 Fireshield® Timber Coating Maintenance Guide is available from Fireshield®.

LIMITATIONS

- The wood-based substrate must be > 8mm or thicker and have a density > 338kg/m³
- For use in interior building spaces only, not wet areas.
- All intumescent coatings require an expansion gap of 50 x the dry film thickness from the coated surface to an adjacent solid surface.
- Do not use in external applications!

TECHNICAL INFORMATION

Specific gravity	1.0
Non-volatile content	30% +/- 2%
Flash point	Non combustible
Viscosity	High viscosity
Colour / Finish	Clear / Matt Finish
Packaging	5 litre / 5kg weight approx.
Mixing	Mechanically mix.
Thinning	DO NOT THIN!
Clean up	Water

GROUP 1-S FILM THICKNESS

Maximum WFT	100 microns WFT
Maximum DFT	25 microns DFT
Maximum grams/m ²	100 grams/m ²

DRYING TIMES

At a wet film thickness of 100µm, a minimum air temperature of 23°C and relative air humidity of 50% the following drying times are applicable:

- 1 hour to touch dry and
- 2 hours dry 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.

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 on this TDS. Shelf life date is on the bucket and is not an expiry date, product subject to reinspection thereafter.

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.
- Apply at a distance of approximately 40-50 cm from the surface.
- Fill out Daily Record Sheets and PS3 for compliance sign off at the conclusion of coating process.

PRECAUTIONS

The following precautions must be taken:

- Read the Fireshield® TimberOne Top Coat 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 drying, 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/air changes.

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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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 Equipment Recommendations

Pump flow rate	5 litres per minute. E.g. Graco Mk V
Hose Diameter	Dedicated hoses not below 3/8"
Spray Tip	Orifice size range of 512 to 517 tip size. Choose appropriate fan width depending upon substrate) to be coated 30° - 60°
Pump Pressure	1750-2350 psi
Heated hose or in-line Heater	Not required.

Brush

Brush application not recommended. For small areas or touch-up care must be taken to achieve the required specified dry film thickness.

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, apply a thin coating without re-rolling on an already painted surface. Let dry, then apply layer two in the same manner for full coverage.

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

WARRANTY

12-month manufacturers shelf life warranty applies to product within the shelf life period.

