Fireshield®
FIRE PROTECTION COATINGS

MAINTENANCE GUIDE

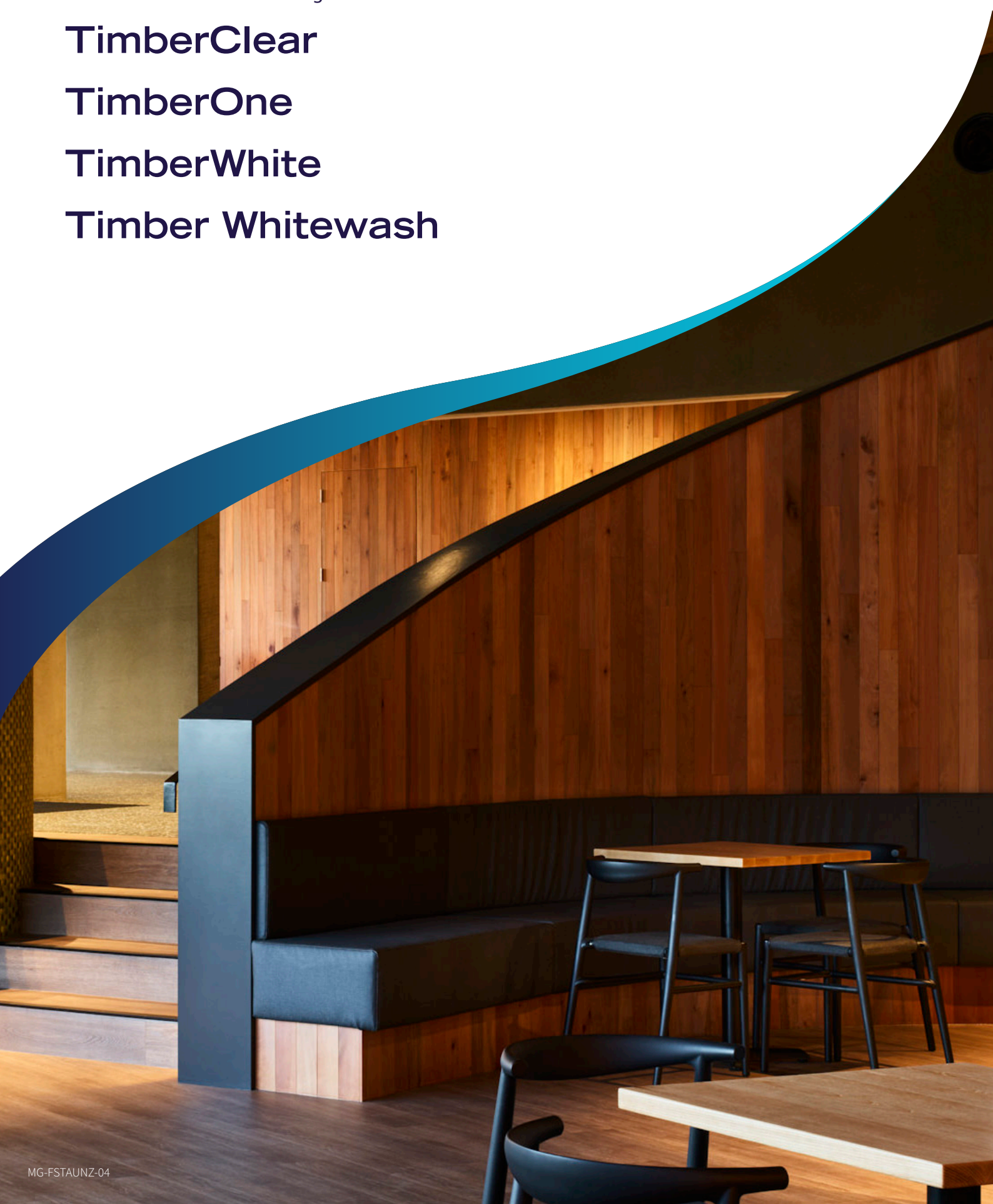
Fireshield Intumescent Coatings for Interior Timber Surfaces.

TimberClear

TimberOne

TimberWhite

Timber Whitewash



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1. INTRODUCTION

Fireshield® offers four different intumescent coating systems for the protection of wood-based substrate surfaces to provide a compliant Group Surface Rating up to Group 1-S/Group 1:

Fireshield Timberclear

Fireshield Timberclear is a clear, waterborne, halogen free intumescent coating designed for use on interior timber surfaces. Timberclear basecoat must be sealed with Timberclear Topcoat Matt or Low Sheen to complete the overall fire protection coating system.

Fireshield TimberOne

Fireshield TimberOne is a waterborne intumescent coating with a translucent finish on light coloured timber substrates. Seal TimberOne with TimberOne Topcoat when in humid areas >75% RH or when a wipeable surface is requried.

Fireshield TimberWhite

Fireshield TimberWhite is a waterborne, halogen free intumescent coating with a matt white finish designed for use on interior timber surfaces. Fireshield TimberWhite can be top coated with a Fireshield approved top coat for protective or decorative reasons.

Fireshield Timber Whitewash

Fireshield Timber Whitewash is a waterborne, halogen free intumescent coating with a whitewash finish designed for use on interior timber surfaces. Fireshield Timber Whitewash can be top coated with a Fireshield approved clear top coat for protective reasons

The Fireshield timber intumescent systems can resist typical contact with moisture, impact and abrasion; however, excessive wear or moisture contact may damage the system and if so, require inspection and possible remediation. Leave a copy of this Maintenance Guide with the Main Contractor or Client for future reference on site.

This document is a guide for the maintenance of the Fireshield® timber systems and is divided into two main sections:

A. **MINOR** damage to the coating system that does not affect compliance and the repair is optional.

B. **MAJOR** damage to the coating system that does affect compliance and must be remediated immediately.

2. INITIAL PRECAUTIONS

The TimberClear system can take up to three weeks (21 days) to fully harden depending on the environmental conditions during curing, during that period ensure that:

- The system remains in the requried environmental conditions for curing as per the technical datasheet 24/7.
- Do not clean or introduce detergents or water to the coating surface.
- There should be no use of adhesives or other installations that may interfere with the coated surface.
- Ensure that other trades are aware of 1-3 above to avoid damage during the final project site clean.

TimberWhite, TimberOne and Timber Whitewash cure faster and do not remain soft for the same period of time as TimberClear.

3. COATING MAINTENANCE

Routine visual inspection of the Fireshield timber intumescent systems helps to ensure that the product will perform in actual building fire conditions.

The system is typically specified and installed in areas exposed to view, because of this, the timber wall or ceiling linings will be prone to high amounts of foot traffic and physical contact.

Identify all areas throughout the building that have the Fireshield timber intumescent system installed, in Australia Fireshield labels will be installed in the local switchboard serving the coated area and near the installation indicating the system installed, by whom and the date of

Frequency of Inspections:

New Zealand:	A minimum once every 12 months or more frequently if required in accordance with Local Council requirements.
Australia:	A minimum once every 12 months in accordance with the Codemark Certificate of Conformity RM30071-rv1 or more frequently as required in accordance with Local Council requirements.

The inspections are to be carried out by a Fireshield Registered Applicator or a suitably qualified and experienced Inspector with a full understanding of the Fireshield coating systems.

The inspections can be as part of the annual Essential Services Inspection, Building Warrant of Fitness, Specified Systems Inspection or as a standalone inspection.

SURFACE CLEANING

Fireshield timber intumescent systems do not require regular coating maintenance if undamaged. During the life cycle of the coating, the surface may need cleaning to remove dirt, grease , food, minor scuffs or marks on the coating surface. To avoid damaging the coating during cleaning or maintenance follow the guidelines below which are a guide only and not exhaustive.

Do not use the following detergents:

- Vinegar (acidic) based cleaners.
- Citrus (lemon) based cleaners.
- Window cleaner.
- Paint remover or other industrial abrasive cleaners.

General Cleaning

- Clean with a warm damp cloth one area at a time.
- Dry immediately with a dry cloth.
- Avoid excessive rubbing and over-cleaning, do not scour.
- Do not allow aggressive floor cleaners used on tiles or carpeted areas to come into regular contact with the coated surfaces, this can occur when hard floors are cleaned below the coated timber walls. In case of accidental contact, immediately rinse and dry.
- Avoid cleaning in direct sunlight or temperatures too hot or too cold.

4. MINOR DEFECTS AND DAMAGE:

Minor visual imperfections or marks that do not affect continued fire compliance can be left as is, or repaired if desired, these include but are not limited to:

1. Soft scuff or polish marks to surface coating (for example caused by human impact)

2. TimberClear only: cloudy or milky finish which can be caused by incorrect environmental conditions during application and curing, moisture entering the system during application and curing

MINOR COATING REPAIRS:

Minor visual imperfections or marks.

1. Fireshield Timberclear and TimberOne full systems:

- The TimberClear Top Coat may be very lightly sanded with fine sandpaper (400 + > grit) to remove light surface damage or marks.
- Be sure not to sand down the topcoat to expose the TimberClear base coat as this will affect compliance.
- Overcoat with an additional coat of Fireshield TimberClear Topcoat (use the same sheen level). It may be necessary to top coat the entire panel or batten to avoid 'wet lines' where the new coating and existing coating overlap.

2. Fireshield TimberWhite and Timber Whitewash

TimberWhite and Timber Whitewash systems that do not have a protective top coat applied cannot be sanded for repair without requiring an additional coat of the applied system for continued compliance.

- TimberWhite and Timber Whitewash systems that have a protective top coat applied; the topcoat may be very lightly sanded with fine sandpaper (400 + > grit) to remove light surface damage or marks.
- Be sure not to sand down the topcoat to expose the TimberWhite and Timber Whitewash base coat as this will affect compliance.
- Overcoat with an additional coat of the same topcoat. It may be necessary to topcoat the entire panel or batten to avoid 'wet lines'

5. MAJOR DEFECTS AND DAMAGE

Non-acceptable surface conditions for continued fire compliance, remediation of the damaged coating MUST be completed for continued compliance; these include but are not limited to:

1. Dents, scratched, gouges, chips or holes in the coating.

2. Delamination of coatings.

3. Flaking, peeling or blistered coatings.

All non-acceptable surface conditions for compliance require immediate remedial work to be carried out by a Fireshield Registered Applicator in accordance with the Fireshield Technical Data Sheet, Application Instructions and Material Safety Data Sheet.

MAJOR COATING REPAIRS:

Major defects and damage that affect continued compliance must be repaired immediately.

- Remove unsound and damaged coatings to a neat firm edge with sound adhesion.
- Sand the damaged timber surface and remove the Fireshield timber intumescent system to at least 5cm away from the damaged area.
- Feather coat edges.
- Clean the sanded surface to remove grease and dust.
- Fill any dents or gouges in the timber substrate as required with a water-based wood filler and allow to fully harden/dry.
- Apply the necessary amount of the Fireshield timber intumescent system in accordance with the Technical Data Sheet and product Application Guide to the repaired area.
- Apply the Fireshield® waterbased ICS by spray if possible. If a topcoat has already been applied to the existing system, minimise overlap of fresh Fireshield® waterbased ICS product over the existing topcoat.
- Apply topcoat as appropriate.
- Complete the Fireshield Daily Application record sheet and provide the client with a copy.