



## APPLICATION GUIDE

TIMBERCLEAR 1FR

TIMBERWHITE 2FR

TIMBER WHITEWASH

Fireshield Intumescent Coatings for Interior Timber Surfaces.

Document No: AI-FSANZ02



**INDEX**

1. INTRODUCTION.....page 3

2. AREAS OF USE.....page 4

3. STORAGE OF MATERIALS.....page 5

4. SURFACE PREPARATION.....page 5

5. APPLICATION ENVIRONMENT.....page 6

6. HEALTH AND SAFETY.....page 6

7. APPLICATION EQUIPMENT.....page 7

8. APPLICATION PROCEDURE.....page 8

9. APPLICATION PAPERWORK.....page 12

10. ONGOING INSPECTIONS & MAINTENANCE.....page 13

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## 1. INTRODUCTION

Fireshield® offers three different coating systems for the protection of wood-based substrate surfaces to provide a compliant Group Surface Rating:

- Fireshield Timberclear<sup>1FR</sup> is a clear, waterborne, halogen free intumescent coating designed for use on interior timber surfaces. Timberclear<sup>1FR</sup> basecoat must be sealed with Timberclear<sup>1FR</sup> Topcoat Matt or Satin sealer.
- Fireshield TimberWhite<sup>2FR</sup> is a white pigmented halogen free waterborne intumescent paint designed for use on interior timber surfaces.
- Fireshield Timber Whitewash is a semi-transparent, halogen free, waterborne intumescent paint designed for use on interior timber surfaces.

All 3 products have been developed, formulated and optimised for surface fire rating of internal wood based substrates (wall and ceiling linings.)

All Fireshield timber coating systems have been tested, certified and assessed in accordance with a range of standards worldwide, for more information please see the relevant technical datasheet or contact Fireshield directly.

This document gives detailed guidance on the use and application of:

- **Fireshield Timberclear<sup>1FR</sup>**
- **Fireshield TimberWhite<sup>2FR</sup>**
- **Fireshield Timber Whitewash**

This document should be read in conjunction with the relevant Technical Datasheet and Material Safety Datasheet.

It is also recommended that reference is made to Local Government, Governing Bodies and Council guidelines for installation licensing requirements and compliance requirements particular to the on-site application of intumescent coatings.

## 2. AREAS OF USE

Fireshield® timber coatings can be used for on-site and offsite application situations to provide surface fire protection to the surface of wood based products used for internal wall and ceiling linings.

Ensure in all project applications, the correct country specific approvals that may be required are being used. Consult Fireshield for the latest information.

All Fireshield Timber intumescent products can only be specified for interior environments. Consult Fireshield for specific recommendations.

All Fireshield timber coating systems can be used over a range of approved clear primer and stain systems (refer to section 6 more details). Only approved clear primers and stains should be used; for use of other primers and stains, please contact Fireshield for assistance.

Fireshield Timberclear<sup>1FR</sup> can only be top coated with Fireshield TimberClear Top Coat Matt or Satin sealer.

Fireshield TimberWhite<sup>2FR</sup> can be top coated with a range of approved top coat systems (refer to section 6 more details). Only approved top coats should be used; for use of other top coats, please contact Fireshield for assistance.

Fireshield Timber Whitewash can be top coated with a Fireshield Approved clear sealer when used in areas with high humidity or when a washable surface is required.

All Fireshield timber coating systems require the following **wood-based substrate requirements**:

1. Minimum 8mm thick wood based substrate.
2. Substrate density must be  $\geq 338 \text{ kg/m}^3$
3. Substrate maximum 15% moisture content

### TRANSPORTATION OF COATED SUBSTRATES

For offsite application, care should be taken to protect coated timber surfaces from damage. Coated timber is best cured in drying racks in a dry, well ventilated and warm warehouse environment.

All Fireshield timber intumescent systems take a minimum of 3 weeks (21 days) to cure, if possible, stack substrates on edge during transport to site to prevent excess pressure on coated surfaces when.

If this is not possible slip sheet timber substrates with re-usable thin air cell foam sheeting or similar to prevent adhesion between the timber surfaces.

Consult Fireshield for more detail in relation to off-site application.

### 3. STORAGE OF MATERIALS

All Fireshield Timber intumescent products recommended storage conditions:

- Store at a temperature 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!
- The shelf life of all Fireshield Timber intumescent products at +25°C is 12 months with the expiry month/year label found on the bucket.

Frozen Fireshield material shall be discarded and NEVER thawed and applied.

To aid ease of airless spray application, Fireshield Timber intumescent products can be stored in a warm environment +15°C to 25°C for at least 16 hours prior to commencement of spraying.

Containers should remain sealed and unopened until needed and used in date order. The shelf life may be reduced when stored at higher temperatures.

### 4. SURFACE PREPARATION

Correct surface preparation is critical to ensure optimum adhesion of the Fireshield timber intumescent systems to the timber substrate, this is to ensure sufficient adhesion for the developing char layer produced under a real fire scenario.

All surfaces to be coated should be clean, dry and free from contamination including dirt, salts, oil and grease, and all substrates must be:

1. Minimum 8mm thick wood-based substrate.
2. Substrate density must be > 338 kg/m<sup>3</sup>
3. Substrate maximum 15% moisture content

Contact Fireshield to check if existing coatings on timber surfaces to be coated have been tested for compatibility and compliance with the Fireshield timber intumescent system.

Waterborne coating products such as the Fireshield timber intumescent systems can:

- Be affected by some fatty timbers that contain resins and oils and leech tannins into the coating.
- Raise or “fir” the grain of some timber panels with high surface tension in the grain.
- Some oils in hardwoods such as Teak, may prevent the adhesion and penetration of the coating into the timber surface.

Contact Fireshield for further information and solutions for these timber types.

## 5. APPLICATION ENVIRONMENT

During application and curing of all Fireshield timber intumescent coating systems ensure that:

- The relative air humidity level is below 75%.
- The air temperature must be between +10°C minimum to a maximum +35°C.

All systems will take 3 weeks (21 days) to fully cure, do not expose the coating to moisture during application or curing, moisture/water ingress may damage the coating and its intumescent and visual qualities.

Immediately after the final coat of the Fireshield intumescent timber coating system has been installed ensure that:

1. The system remains dry and free from water and humidity above 75%.
2. Do not clean or introduce detergents or water to the coating surface.
3. Ensure that other trades are aware of (2) above to avoid damage during the final project site clean.
4. There should be no use of adhesives or other installations that may interfere with the coated surface.

During curing ensure adequate air flow to area being coated to assist in the curing process, heaters and dehumidifiers can also be used to help control the environmental conditions if necessary.

## 6. HEALTH AND SAFETY

Fireshield timber intumescent systems are intended for use only by professional Accredited Applicators in industrial situations in accordance with the advice given in this document and on product buckets and should not be used without reference to the Material Health and Safety Data Sheets (MSDS) which Fireshield Coatings has provided to its customers.

If for any reason a copy of the relevant Material Health and Safety Data Sheet is not immediately available, the user should obtain a copy before using the product.

Protective measures should be taken when handling or applying the products in accordance with the product Material Safety Data Sheet. In particular:

- Wear eye protection
- Use respiratory protection for spraying meeting the requirements of AS/NZS 1715 and AS/NZS 1716
- Wear overalls, impervious gloves and safety shoes.
- When using do not eat, drink or smoke.

## 7. APPLICATION EQUIPMENT

Fireshield timber products can achieve compliance when brushed or rolled, provided the correct film builds are achieved. However, the resulting finish may not be acceptable in certain environments for the same reasons that you would not roll or brush a lacquer or polyurethane coating.

A sample should be provided to the Specifier prior to application for approval when brush or roller application is used.

### AIRLESS SPRAY:

Fireshield TimberClear<sup>1FR</sup>, Timberwhite<sup>2FR</sup> and Timber Whitewash are best applied in one coat with an airless spray unit capable of:

- 5 litres per minute delivery (2200 to 3300 psi)
- 517 tip.
- Inline heater unit to maintain product temperature at room temperature, + 30°C maximum. (DO NOT HEAT TIMBERCLEAR TOP COAT)
- Dedicated 3/8" hoses are recommended.

Ensure the airless spray unit has been THOROUGHLY cleaned to prevent contamination from other products that may have been used previously. Dedicated hoses are recommended for Fireshield TimberClear<sup>1FR</sup>, Timberwhite<sup>2FR</sup> and Timber Whitewash to prevent possible chemical reaction between coatings that may degrade the aesthetic finish and leave unwanted marks and blemishes.

NOTE: Never use the same tools for solvent-based paints and for waterborne paints. These items must be cleaned thoroughly and used only for fire-retardant paint. Any filters in the airless spray must be removed from both the gun and holding filters.

Fireshield timber products can achieve compliance when brushed or rolled, provided the correct film builds are achieved. However, the resulting finish may not be acceptable in certain environments for the same reasons that you would not roll or brush a lacquer or polyurethane.

A sample should be provided to the Specifier prior to application for approval when brush or roller application is used.

### 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. For brushing, use only high-quality brushes. When applying Fireshield TimberClear<sup>1FR</sup> Top Coat we recommend using a 5mm mohair roller sleeve.

It is not recommended that Timber Whitewash be applied by brush.

### 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 rolling we recommend a 5-8mm microfiber blend sleeve is used.

It is not recommended that Timber Whitewash be applied by roller.

On linear timbers or timber battens, or if roller or brush application is completely unavoidable, the resulting surface finish **MUST** first be approved by the specifier or architect.

When rolling or brushing Fireshield TimberClear<sup>1FR</sup> and Timberwhite<sup>2FR</sup> apply 2 coats at half the required wet film build.

## 8. APPLICATION PROCEDURE

The application procedure for Fireshield TimberClear<sup>1FR</sup>, Timberwhite<sup>2FR</sup> and Timber Whitewash basecoats are very similar, however:

- Fireshield TimberClear<sup>1FR</sup> requires sealing with Fireshield TimberClear<sup>1FR</sup> Top Coat Matt or Semi-Gloss to protect the intumescent basecoat.
- Fireshield Timberwhite<sup>2FR</sup> and Timber Whitewash do not require a protective top coat and can be left as is unless it is used in areas with constant air humidity higher than 75%, or when there is a risk of prolonged contact with moisture or when a washable surface is required. In this instance it should be sealed with a Fireshield Approved top coat.

### 1. Application procedure for Fireshield TimberClear<sup>1FR</sup> and Fireshield TimberClear<sup>1FR</sup> Top Coat Matt or Semi-Gloss

(this can be used as a checklist on site):

- Obtain copies of the latest Technical Data Sheets and Material Safety Data Sheets from [www.fireshieldcoatings.com](http://www.fireshieldcoatings.com) prior to collecting, receiving or opening any Fireshield products.
- Obtain written confirmation that the wood-based substrate is denser than  $\geq 338\text{kg/m}^3$  and thicker than 8mm.
- Verify and record in writing that the moisture content of the substrate is below 15% and will remain that way.
- Fill in the Daily Record sheet with the required environmental conditions.
- In Australia only: ensure that all the conditions of use pertaining to the Codemark Certificate of Conformity have been met prior to application. Go to [www.fireshieldcoatings.com](http://www.fireshieldcoatings.com) for the latest copy of the Codemark Certificate .
- A minimum +10°C air temperature and maximum 75% relative air humidity must be maintained throughout the coating and curing process.
- Fireshield timber intumescent can be warmed between +23°C and +30°C to aid in application as they become far less viscous, continue to stir periodically.
- Do not heat above +35°C as the binder will be activated rendering the product useless!
- DO NOT THIN** any of the Fireshield timber intumescent basecoats.
- If a stained finish is required under Fireshield TimberClear<sup>1FR</sup>, contact Fireshield to ensure a Fireshield Approved stain is used prior to installation.
- If existing coatings are present on the substrate: contact Fireshield to check if existing coatings have been tested for compatibility with Fireshield TimberClear<sup>1FR</sup>. Previously coated surfaces can be sanded back to raw timber or can be primed with a Fireshield approved primer for TimberClear<sup>1FR</sup>.
- Power stirring is essential to ensure that the coating is mixed to a uniform consistency.
- Spray one coat of Fireshield TimberClear<sup>1FR</sup> intumescent basecoat at the minimum wet film thickness required to achieve the required Group Surface Rating (see the Technical Data Sheet for film thickness requirements)
- Care should be taken not to “overlap” the spray strokes to achieve an even wet film thickness and appearance when dry.
- Record the appropriate number of wet film measurements (see Table 3.1 below) using a wet-comb and record on the Daily Record Sheet.
- Allow to cure for the recommended minimum drying time, see the product Technical Data Sheet for all drying times. (Dehumidified, warm environments with good air flow will accelerate this process)



- Do not apply the TimberClear Top Coat if the basecoat is still wet after the minimum dry times, dry times may be lengthened by poor air flow and environmental conditions differing from those listed on the Technical Data Sheet, 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 below 10°C.
- Fireshield TimberClear<sup>1FR</sup> must always be sealed with Fireshield TimberClear<sup>1FR</sup> Top Coat Matt or Semi-Gloss.
- The gloss level of the Fireshield TimberClear<sup>1FR</sup> Top Coat will be in the Specification. However, as is the case for all clear finishes and varnishes, Semi-Gloss is better suited to areas that may require regular cleaning or will be exposed to higher impact. Be sure to discuss this information with the Specifier PRIOR to application.
- Fireshield TimberClear<sup>1FR</sup> Top Coat Matt or Semi-Gloss should be sprayed in one coat at a **MINIMUM** 60µm wet film thickness. (Never apply less and consider applying more to achieve a proper sealing coat)
- Periodically stir the contents of Fireshield TimberClear<sup>1FR</sup> Top Coat Matt or Semi-Gloss during application , failure to do so may affect the finish of the clear coat when dried as is the case for standard clear finishes and varnishes.
- Fireshield TimberClear<sup>1FR</sup> Top Coat Matt or Semi-Gloss can be thinned to a maximum 10% using a high-quality white spirit to aid in application. The minimum wet film thickness must be increased to 85µm minimum.
- Record the appropriate number of wet film measurements (see Table 3.1 below) using a wet-comb.
- Ensure the entire surface of Fireshield TimberClear<sup>1FR</sup> receives an even and full coat of Fireshield TimberClear<sup>1FR</sup> Top Coat Matt or Semi-Gloss.
- When installed in an area where high impact may occur or humidity levels may exceed 75%, consider 2 x coats of Fireshield TimberClear<sup>1FR</sup> Top Coat Matt or Semi-Gloss sealer.
- All Fireshield timber intumescent systems will take 3 weeks (21 days) to fully cure, during that period ensure that:
  - The system remains dry and free from water and high humidity.
  - Do not clean or introduce detergents or water to the coated surface.
  - Ensure that other trades are aware of (3) above to avoid damage during the final project site clean.
  - There should be no use of adhesives or other installations that may interfere with the coated surface.

**2. Application procedure for Fireshield TimberWhite<sup>2FR</sup> intumescent basecoat.** (this can be used as a checklist on site):

- Obtain copies of the latest Technical Data Sheets and Material Safety Data Sheets from [www.fireshieldcoatings.com](http://www.fireshieldcoatings.com) prior to collecting, receiving or opening any Fireshield products.
- Obtain written confirmation that the wood based substrate is denser than 338kg/m<sup>3</sup> and thicker than 8mm.
- Verify and record in writing that the moisture content of the substrate is below 15% and will remain that way.
- Fill in the Daily Record sheet with the required environmental conditions.
- In Australia only: ensure that all the conditions of use pertaining to the Codemark Certificate of Conformity have been met prior to application. Go to [www.fireshieldcoatings.com](http://www.fireshieldcoatings.com) for the latest copy of the Codemark Certificate.
- If existing coatings are present on the substrate: contact Fireshield to check if existing coatings have been tested for compatibility with Fireshield TimberWhite<sup>2FR</sup>. Previously coated surfaces can be sanded back to raw timber or can be primed with a Fireshield approved primer for TimberWhite<sup>2FR</sup>.
- A minimum +10°C air temperature and maximum 75% relative air humidity must be maintained throughout the coating and curing process.
- Fireshield timber intumescent can be warmed between +23°C and +30°C to aid in application as they become far less viscous, continue to stir periodically.
- Do not heat above +35°C as the binder will be activated rendering the product useless.

- DO NOT THIN** any of the Fireshield timber intumescent basecoats.
- Power stirring is essential to ensure that the coating is mixed to a uniform consistency.
- Spray one coat of Fireshield TimberWhite<sup>2FR</sup> intumescent basecoat at the minimum wet film thickness required to achieve the required Group Surface Rating (see the Technical Data Sheet for film thickness requirements)
- Note: if Fireshield Timberwhite<sup>2FR</sup> is to be top coated with a Fireshield Approved Top Coat the wet film thickness for the basecoat compliance is higher than that used for compliance for an unprotected coat, see the latest Technical Data Sheet for details.
- See the Manufacturers Technical Data Sheet and Application Instructions for the particular Fireshield Approved top coat to be used prior to application.
- Record the appropriate number of wet film measurements (see Table 3.1 below) using a wet-comb and record on the Daily Record Sheet.
- Allow to cure for the recommended drying time, see the product Technical Data Sheet for all drying times. (Dehumidified, warm environments with good air flow will accelerate this process)
- Do not apply a Fireshield Approved top coat if the basecoat is still wet after the minimum dry times, dry times may be lengthened by poor air flow and environmental conditions differing from those listed on the Technical Data Sheet, 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 below 10°C.
- All Fireshield timber intumescent systems will take 3 weeks (21 days) to fully cure, during that period ensure that:
  - The system remains dry and free from water and high humidity.
  - Do not clean or introduce detergents or water to the coated surface.
  - Ensure that other trades are aware of (3) above to avoid damage during the final project site clean.
  - There should be no use of adhesives or other installations that may interfere with the coated surface.

**3. Application procedure for Fireshield Timber Whitewash intumescent basecoat.** (this can be used as a checklist on site):

- Obtain copies of the latest Technical Data Sheets and Material Safety Data Sheets from [www.fireshieldcoatings.com](http://www.fireshieldcoatings.com) prior to collecting, receiving or opening any Fireshield products.
- Obtain written confirmation that the wood-based substrate is denser than 338kg/m<sup>3</sup> and thicker than 8mm.
- Verify and record in writing that the moisture content of the substrate is below 15% and will remain that way.
- Fill in the Daily Record sheet with the required environmental conditions.
- In Australia only: ensure that all the conditions of use pertaining to the Codemark Certificate of Conformity have been met prior to application. Go to [www.fireshieldcoatings.com](http://www.fireshieldcoatings.com) for the latest copy of the Codemark Certificate.
- If existing coatings are present on the substrate: contact Fireshield to check if existing coatings have been tested for compatibility with Fireshield Timber Whitewash. Previously coated surfaces can be sanded back to raw timber or can be primed with a Fireshield approved primer for Timber Whitewash.
- A minimum +10°C air temperature and maximum 75% relative air humidity must be maintained throughout the coating and curing process.
- Fireshield timber intumescent can be warmed between +23°C and +30°C to aid in application as they become far less viscous, continue to stir periodically.
- Do not heat above +35°C as the binder will be activated rendering the product useless.
- DO NOT THIN** any of the Fireshield timber intumescent basecoats.
- Power stirring is essential to ensure that the coating is mixed to a uniform consistency.

- Spray one coat of Fireshield Timber Whitewash basecoat at the minimum wet film thickness required to achieve the required Group Surface Rating (see the Technical Data Sheet for film thickness requirements)
- Care should be taken not to “overlap” the spray strokes to achieve an even wet film thickness and appearance when dry.
- Note: if Fireshield Timber Whitewash is to be top coated with a Fireshield Approved clear top coat the wet film thickness of the basecoat for compliance is higher than that used for compliance for an unprotected coat, see the latest Technical Data Sheet for details.
- See the Manufacturers Technical Data Sheet and Application Instructions for the particular Fireshield Approved top coat to be used prior to application.
- Record the appropriate number of wet film measurements (see Table 3.1 below) using a wet-comb and record on the Daily Record Sheet.
- Allow to cure for the recommended minimum drying time, see the product Technical Data Sheet for all drying times. (Dehumidified, warm environments with good air flow will accelerate this process)
- Do not apply a Fireshield Approved top coat if the basecoat is still wet after the minimum dry times, dry times may be lengthened by poor air flow and environmental conditions differing from those listed on the Technical Data Sheet, 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 below 10°C.
- All Fireshield timber intumescent systems will take 3 weeks (21 days) to fully cure, during that period ensure that:
  - The system remains dry and free from water and high humidity.
  - Do not clean or introduce detergents or water to the coated surface.
  - Ensure that other trades are aware of (3) above to avoid damage during the final project site clean.
  - There should be no use of adhesives or other installations that may interfere with the coated surface.

The thickness of the wet film must be checked at regular intervals when applying FIRESHIELD timber intumescent. It is also important to carry out a final inspection of the coating before applying the topcoat. Check the product Technical Data Sheet which shows the paint volume ratio, wet film to dry film, of FIRESHIELD paint to comply with the necessary Group 1 rating.

Table 1:

NUMBER OF WET FILM MEASUREMENTS REQUIRED PER M <sup>2</sup> OF COATED SURFACE	
AREA TO BE COATED m <sup>2</sup>	MINIMUM NUMBER OF MEASUREMENTS
1m <sup>2</sup> to 3m <sup>2</sup>	9
>3m <sup>2</sup> to 10m <sup>2</sup>	15
>10m <sup>2</sup> to 30m <sup>2</sup>	21
>30m <sup>2</sup> to 100m <sup>2</sup>	27
100m <sup>2</sup> >	27 for the first 100m <sup>2</sup> + 9 for each additional 100m <sup>2</sup>

**9. APPLICATION PAPERWORK**

All Fireshield intumescent timber products are a compliance based passive fire protection system that must be installed by an Accredited Applicator that is a suitably qualified or a competent person able to sign off their own work.

By completing the relevant paperwork, the Applicator is confirming that their aspect of the building work complies with the building approval and the relevant building laws.

Applicators must complete and sign a Statement of Construction, a Producer Statement (PS3) or Form 16 (only one of these depending on the local Council/Building Certifier requirements).

A copy of the signed Statement of Construction, a Producer Statement (PS3) or Form 16 combined with the daily application record must be forwarded to the Main Contractor or in the absence of a Main Contractor, the property owner or his agent.

In some Territories or Provinces local Council require that Passive Fire Installers are registered and licensed, please enquire with your local Council prior to installing any Fireshield timber intumescent products. Contact Fireshield for further information.

Leave a copy of the Fireshield Maintenance Guide on site with the Main Contractor or Client.

Install at least one small product label on or in close proximity to the coated surface and a large product description label in the switchboard cupboard serving the coated area. Contact Fireshield for these labels.

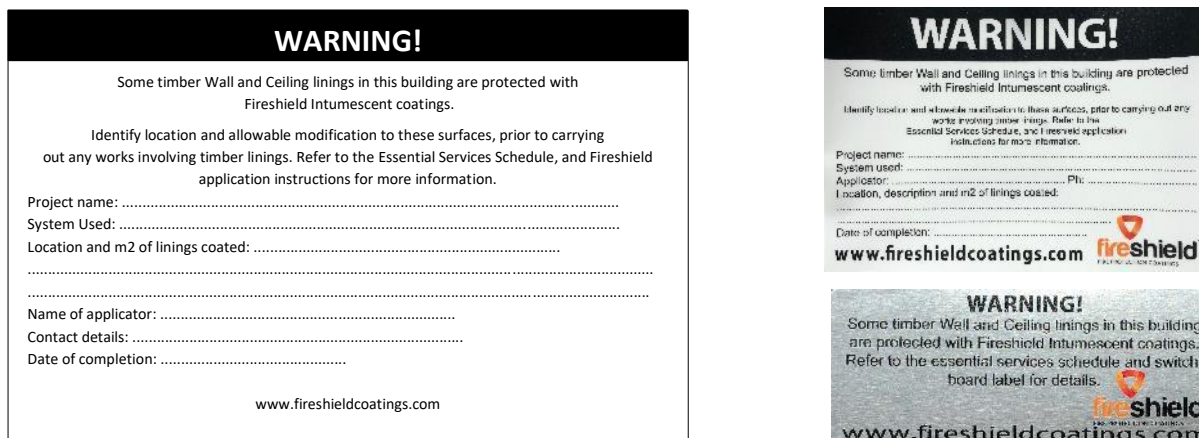


Figure 1

## 10. ONGOING INSPECTIONS & MAINTENANCE

### SITE INSPECTIONS:

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 where the timber wall or ceiling linings will be exposed to view and where high amounts of foot traffic and contact may be prevalent.

Identify all areas throughout the building that have the Fireshield timber systems installed, Fireshield labels (see Figure 1) will be installed in the local switchboard serving the coated area and near the installation.

**AUSTRALIA ONLY:** In accordance with the Fireshield® TimberClear1FR Codemark Certificate of Conformity and the Fireshield® Application Instructions, coatings should be inspected at least once every 12 months. This can be as part of the annual Essential Services Inspection or as a standalone inspection.

This is to be carried out by a Fireshield® Accredited Applicator or a suitably qualified and Experienced Practitioner with a full understanding of the Fireshield® coating systems.

During the site inspection the following two scenarios may be present, for repair advice please see the Fireshield series of Maintenance Guide documents for each individual product.

### MAINTENANCE:

All Fireshield timber intumescent systems have 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 Fireshield series of Maintenance documents is provide guidance and are 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 to be left with the Main Contractor or Client for future reference on site.

### ACCEPTABLE SURFACE CONDITIONS NOT AFFECTING COMPLIANCE

Minor visual imperfections or marking that do not affect compliance can be left or repaired if desired, these include but are not limited to:

1. Cloudy finish. (for example, can be caused by incorrect environmental conditions during application and curing, humidity or moisture entering the system during application and curing)
2. Soft scuff or polish marks to surface coating (for example caused by human impact)

### NON-ACCEPTABLE SURFACE CONDITIONS AFFECTING COMPLIANCE

Remediation of the damaged coating **MUST** be done for continued compliance with the Codemark Certificate of Conformity, 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® Accredited Applicator, in accordance with the Fireshield® Technical Data Sheet and product Maintenance Guide.