

TECHNICAL DATA SHEET AU

FIRESHIELD

Timberclear 1FR

(CLEAR INTUMESCENT)



PRODUCT DESCRIPTION

Fireshield Timberclear 1FR is a halogen free, waterborne intumescent base coat.

SPECIAL PROPERTIES

Fireshield Timberclear 1FR is an intumescent clear coating that foams into a thick layer when exposed to high temperatures derived from flames or intensive heat radiation from fire. The porous layer of foam effectively extinguishes the flow of heat to the treated surface. Fireshield 1FR shall always be used in conjunction with 1FR TOPCOAT.

FIELD OF APPLICATION

Fireshield Timberclear 1FR is used to prevent spread of fire on internal wall and ceiling linings made of solid wood or engineered timbers. Fireshield 1FR is also used for fire protection of structural timber works.

APPLICATION

Refer to Fireshield Timberclear 1FR Application Instructions.

Ensure substrate is compliant, clean and clear of oils and dirt and moisture content is below 15% and will remain that way. Do not apply in conditions colder than 10°C or humidity above 80%.

If required, stain with an approved water-based product like Resene Colorwood.

Warm the intumescent, stir as required until liquid temperature is 30°C, 40°C max. **DO NOT THIN!**

For best results, spray with a heated airless spray capable of 5L/m. Spray 1 coat of Fireshield 1FR (water-based) Intumescent at 230µm wet film thickness = 300g/m². Record appropriate number of measurements. Allow to dry for 48hrs. Warm dehumidified environments will accelerate this process.

Spray 1 coat of Fireshield 1FR TOPCOAT at 60µm wet film thickness. Refer to Fireshield 1FR TOPCOAT data sheet for details.

Complete producer statement (PS3) and daily application records. Forward to main contractor & Fireshield Coatings.

NOTE: Fireshield 1FR can be brushed or rolled on small or linear substrates, provided product viscosity and application conditions can be met. Heated Airless spray achieves the best finish.

All information in this sheet is to be considered as guidelines collected from technical tests and practical knowledge of the product. This information may not be used as a basis or verification for other tests or systems. Resene Paints Ltd and Fire Protection Coatings Ltd are not responsible for other application fields or incorrect handling. The user is responsible for using the latest version of this document. Consult www.fireshieldcoatings.com

DRYING TIME

Dry times at +23°C and humidity of 50% are as follows:
- 8 hrs between coats of Fireshield 1FR intumescent.
Fireshield 1FR TOPCOAT.

PROTECTIVE MEASURES

Preventive measures: Avoid contact with skin and eyes.
Personal safety equipment: At handling where prolonged or repeated direct contact cannot be excluded protective gloves should be worn. Protective glasses are recommended when there is a risk of splashes. To avoid other types of direct contact suitable protective clothes are recommended. See further Safety Data Sheet.

ADDITIONAL DATA

Viscosity:	high viscosity
Flash point:	Non-combustible
Specific gravity:	1.3
Non.vol.contnt:	65%
Thickness:	230µm wet film thickness will use 300g/m ² and dry to 150µm dry film thickness.
Thinner:	DO NOT THIN, wash up in warm soapy water
Storage:	12 month life-span. Do not store on concrete slabs and maintain a minimum 5°C storage temperature.

Wet paint quantity (g/m ²)	Wet film (µm)	Dry film (µm)
300	230	150

APPROVALS

The Group Number Classification to NCC Specification C1.10-4 Table 3 has been determined in accordance with AS/NZS 3837 and assessed by BRANZ for determination.

The Joint Accreditation System of Australia and New Zealand (JAS-ANZ). JAS-ANZ is the government appointed body responsible for accrediting Global-Mark as a conformity assessment body. Global-Mark have carried out an extensive review the Fireshield products, systems, production and Test certification. As a result, they have Issued a Certification Of Conformity, stating that Fireshield Complies with the National Construction Code 2016 Volume One CP4 in respect of Wall and Ceiling Linings. FIRESHIELD Timber Intumescent Coating System 1FR will achieve Group 1 rating and an average specific extinction area of less than 250 m²/kg. When applied to timber, equal to or thicker than 9mm and Denser than 360kg/m³. This negates C1.10 (clause b) of the NCC.