

# TECHNICAL DATA SHEET

## FIRESHIELD 2FR

### (PIGMENTED INTUMESCENT)



#### PRODUCT DESCRIPTION

Fireshield 2FR is a halogen free, waterborne, pigmented intumescent base coat.

#### SPECIAL PROPERTIES

Fireshield 2FR is a pigmented intumescent paint 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 coated surface.

Fireshield 2FR can be topcoated with Resene Spacecote.

#### FIELD OF APPLICATION

Fireshield 2FR is used primarily to achieve a Group 1-S surface finish on almost all timber ceiling and wall linings.

Fireshield 2FR is offered in flat white and will not achieve opacity at the recommended dry film thickness.

#### APPLICATION

**Refer to Fireshield 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. If Necessary degrease with a suitable product.

Warm Fireshield 2FR intumescent to decrease its viscosity, Stir well whilst warming, until liquid temperature is around 30 degrees. **DO NOT THIN!** Ensure temperature is maintained while painting.

Use heated inline airless spray applicator for best results.

Spray 1 Coat of Fireshield 2FR (water based) Intumescent at 230µm wet film thickness = 300g/m<sup>2</sup>. Record appropriate number of measurements. Allow to dry for 48hrs. Warm, dehumidified environments will accelerate this process.

If topcoat is required, coat with Resene Spacecote Low-Sheen.

Complete producer statement (PS3) and Provide to main contractor or BCA and Resene Fireshield.

Airless spray for best results. Brush or roller can be used to achieve compliance, however finish may vary.

#### PROTECTIVE MEASURES

Preventive measures: Avoid contact with skin and eyes. Keep out of reach of children.

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 clothing is recommended. See further Safety Data Sheet.

Consult Resene Paints Ltd Technical Services for recommended type of tools. Fireshield 2FR should be well stirred before application. Tools can be cleaned in water.

#### DRYING TIME

Dry times at +23°C and humidity of 50% are as follows:

- 8 hrs between any additional coats of FIRESHIELD 2FR intumescent.

- 48 hrs before topcoating with Resene Spacecote.

- Low-Sheen. Warm, dehumidified environments will accelerate this process.

#### ADDITIONAL DATA

Viscosity:	High viscosity
Flash point:	Non-combustible
Non-volatile content:	70%
Thickness:	230µm wet film thickness will use 300g/m <sup>2</sup> and dry to 160µm DFT
Thinner:	DO NOT THIN, wash up in warm soapy water
Storage:	12 months life-span. Do not store on concrete slabs and maintain a minimum 5°C storage temperature. <b>MUST BE PROTECTED AGAINST FROST</b>

#### APPROVALS

Fireshield 2 FR has been tested in Europe and meets Fire Class B-s1-d0 according to EN13501-1:2010.

This is recognised as equivalent to Group 1-S under the NZ Building Code.

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 Resene Paints Ltd Technical Services or [www.fireshield.co.nz](http://www.fireshield.co.nz)

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