

## FIREFREE Exterior Topcoat®

**Product Name:** FIREFREE Exterior Topcoat®

**Description:** FIREFREE Exterior Topcoat® is a fire-resistant intumescent coating.

**Product description and its intended use:** FIREFREE Exterior Topcoat® is premium, 100% acrylic, exterior paint to be used exclusively over surfaces previously coated with Firefree 88®, to improve the durability of such products if used in exterior applications in compliance with Firefree Coatings recommendations.

FIREFREE Exterior Topcoat® comes in a white, satin finish. If a different color or finish is desired, FIREFREE Exterior Topcoat® can be top coated with most premium topcoats to achieve the desired color and finish.

### Key Technical Specifications:

|                                 |   |
|---------------------------------|---|
| Appearance:                     | White Liquid                                |
| Finish/Sheen:                   | Satin                                       |
| VOC:                            | <50 g/L (test method ASTM D3960)            |
| Percent Volume Solids:          | 42.9%                                       |
| Specific Gravity/Density, g/ml: | 1.28  |
| Thinning:                       | Not Recommended                             |
| Packaging:                      | 5 gallon pails / 18.9 Litres(25.5Kgs gross) |
| Shelf-Life:                     | 2 years (unopened) from date of manufacture |

**Product Identifier:** FIREFREE Exterior Topcoat® intumescent coating

**Place of manufacture:** ~~New Zealand~~ Overseas

**Legal & trading name of the manufacturer:** Firefree Coatings, Inc.

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### Relevant Building Code Clauses:

B2 Durability: Performance clause B2.3.1(c) (i) & (ii)

C Protection from Fire

E Moisture

F2 Hazardous Building Materials: Performance clause F2.3.1

### Statement on how the building product is expected to contribute to compliance the New Zealand Building Code:

**B2 Durability:** Performance clause B2.3.1(c) (i) & (ii): FIREFREE Exterior Topcoat® has a durability of at least 5 years where the coating is not damaged due to abrasion and impact (please clause E2 External Moisture that follows). Refer to the design and installation requirements and normal maintenance requirement sections for further information.

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## E2 External Moisture

Exterior walls must prevent the penetration of water that could cause undue dampness, damage to building elements, or both. **FIREFREE Exterior Topcoat**<sup>®</sup> has passed the weatherization test (ASTM D2898, method B) over FIREFREE 88<sup>®</sup> intumescent coating.

**F2 Hazardous Building Materials:** Performance clause F2.3.1: **FIREFREE Exterior Topcoat**<sup>®</sup> does not emit toxic fumes or leach toxic material during life of the coating. Safety of applicators - refer to VOC test result.

## Limitations on the use of the building product:

Adequate ventilation must be maintained to ensure that moisture does not accumulate on the **FIREFREE Exterior Topcoat**<sup>®</sup> painted wall and ceiling surfaces. Not resistant to ponding water.

## Design requirements that would support the appropriate use of the building product:

**FIREFREE Exterior Topcoat**<sup>®</sup> is a water-based latex paint and its application is similar to applying a regular water-based latex paint except for the recommended thickness which needs to be precisely complied with for adequate fire performance.

Recommended application of **FIREFREE Exterior Topcoat**<sup>®</sup> is two coats at 150 microns (WFT).

| Application          | Coverage Rate               | WFT         | DFT         |
|----------------------|-----------------------------|-------------|-------------|
| 1 <sup>st</sup> coat | 5.5m <sup>2</sup> per litre | 182 microns | 78 microns  |
| 2 <sup>nd</sup> coat | 5.5m <sup>2</sup> per litre | 182 microns | 78 microns  |
| Total thickness      |                             |             | 156 microns |

Expected coverage rate is 52 m<sup>2</sup> per pail applied in two coats to obtain a total DFT of 156 microns.

## Installation Requirements

**FIREFREE Exterior Topcoat**<sup>®</sup> may be applied by airless sprayer, roller or brush. DO NOT THIN.

Airless Spray: Low pressure tip size .013 to .015. Heavy duty 4" to 12" (10.16 cm to 30.48 cm) fan width recommended.

Roller: Use a 1-1/4" (20-25mm) nap synthetic cover for heavy application. Other rollers may be used depending on desired finish.

Brush: For brush application, a nylon/fully loaded brush should be used. A laying on technique will reduce the brush marking.

***The dry film thickness recommended by Firefree needs to be precisely complied with for adequate performance***, thus during application, the wet film thickness should be checked using a wet film thickness gauge. The final DFT needs also to be verified, see third-party inspection below.

## DFT THIRD PARTY INSPECTION

As this is a life safety issue, Firefree Coatings requires that all surfaces to which the Product was applied be inspected a by third party special inspection agency to verify that the Product has been properly applied in the required uniform thickness.

**Web link to Installation:** <https://www.polymer.co.nz/product/fireproofing/#1714089125112-3385db10-0816>

## Maintenance Requirements:

Surfaces which have been coated with **FIREFREE Exterior Topcoat**<sup>®</sup> must be protected from abuse and abrasion. Any damaged surfaces should be repaired with **Firefree 88**<sup>®</sup> (if applicable) and **FIREFREE Exterior Topcoat**<sup>®</sup> should re-applied to the original specified dry film thickness in order to maintain exterior protection of the **Firefree 88**<sup>®</sup> intumescent coating.

**Web link to maintenance guide:** <https://www.polymer.co.nz/product/fireproofing/#1714088694245-b7fd869f-16c8>

**Is the building product/building product line subject to a warning or ban under section 26 of the Building Act 2004?**    Yes / No

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