

FireZone™ F1E is an exterior ignition barrier for timber cladding. It is a 1-part, self-priming, durable, intumescent, water based coating.

RECOMMENDED USE

FireZone™ F1E meets the New Zealand standards for Type A, non-combustibility. It is a highly durable, flexible, environmentally friendly, pigmented intumescent coating. It is appropriate for use when a pigmented/ painted finish is desired to achieve either a Type A or Type B non-combustibility fire rating on timber cladding.

- Within 1m of a boundary
- Multi-level building with total height over 10m
- SI Risk Group Buildings

SUSTAINABILITY

- Water-based
- Low VOC 19g/L
- Allows for the use of timber claddings

DURABILITY – FIRE PERFORMANCE

FireZone™ F1E is a highly durable and flexible intumescent coating. As per the NZBC C/AS1 And C/AS2 testing requirements for external cladding fire performance, FireZone™ F1E has achieved the required fire performance for Type A after an accelerated weathering regime to ASTM 2898 D Method B.

TOPCOAT

Durability testing has been achieved without a topcoat. FireZone™ F1E is supplied limited colours, grey or brown, or as available. We recommend applying a decorative acrylic topcoat from your chosen paint supplier.

SPECIFICATION

FireZone™ F1E can be specified using Masterspec section 6743ZE which can be linked directly to your chosen timber suppliers Masterspec section. Contact Zone for specification assistance.

FIRE PERFORMANCE

Testing in accordance with ASTM 2898 D Method B and ISO5660-1 and compliant with the requirements of C/AS1 and C/AS2 to achieve a Type A Non Combustibility classification under External Cladding.

SUBSTRATE CHOICE

A minimum timber density of 370kg/m³ and thickness of 18mm is required.

APPLICATOR SPECIFICATION

Bare Timber or pre-primed

| WFT Total | DFT Total | Spread Rate (Theoretical) |
|-----------|-----------|----------------------------------|
| 750µm | 400µm | 1.6m ² /L @ 750µm DFT |

Brush: 3 coats @ 250µm WFT per coat

Spray: 2 coats @ 375µm WFT per coat

APPLICATION

FireZone™ F1E can be applied by brush, roller or airless spray.

Spray:

Pump: Piston pump, airless spray with a minimum 1GPM rating at 3000psi, i.e. Graco 795, 1095 or equivalent.

Tip Size: 521-623 or similar

Filters: Internal filters can be removed. 30 mesh can be used as a minimum

Pressure: 2100 PSI or higher

Hose: Use minimum 10mm (3/8") airless spray line for first 15m from pump

Use of dedicated spray line is required.

Brush:

Use top quality polyester/nylon blend brush or similar.

Roller:

10mm-20mm polyester blend nap roller or foam sleeves are recommended, subject to the type of substrate surface. Laying off a rolled surface immediately with a brush is recommended.

Conditions:

Minimum of 12°C and maximum of 80% relative humidity.

Ideal air temperature of 25°C and relative humidity of less than 50%.

Do not apply if air temperature will fall below 12°C within two hours of application, or above 34°C.

Product:

Power stir for at least 2 minutes prior to application.

Do not thin the product.

Clean up:

Thoroughly rinse application tools with water before paint is dry.

Flush airless spray equipment with water as soon as work ceases.

Recoat and dry times:

Recoat time is 4 hours with sufficient air flow at 25°C and relative humidity of 50%.

Do not recoat until paint has dried and feels firm, does not deform, or feel sticky under moderate thumb pressure.

Failure to allow for proper drying may lead to cracking or peeling.

Shelf and Pot Life:

Shelf Life: 24 months unopened

Pot Life: 60 days from time of opening

Topcoat:

FireZone™ F1E must be left for 3 weeks prior to application of decorative topcoat.

MAINTENANCE

If the system is left without a decorative topcoat, Zone recommends an annual inspection of the coating by the building owner. If mechanical damage to the system is observed, please contact us to organise an inspection or touch up.

Decorative topcoats will minimise the maintenance required to the intumescent system. For maintenance requirements of the decorative topcoat chosen, please refer to your chosen supplier.

REPAIR OF INSTALLED SYSTEM

- Damaged areas exposing bare timber should be repaired immediately
- Repair any damage to the substrate if required prior to re application of damaged area
- Remove any loose material and sand any rough edges
- Apply FireZone™ F1E to the damaged area at the originally specified thickness and as per the manufacturer's specification

QUALITY ASSURANCE

Records must be kept during application of FireZone™ F1E. Please contact Zone for a standard QA template. Records must be kept of:

- Application location
- WFT readings
- Environmental conditions

It is the sole responsibility of the applicator to ensure that F1E has been applied in accordance with the specification.

TERMS AND CONDITIONS

Please refer to Zone Architectural Products standard Terms and Conditions available at www.zone.net.nz.