FIREZONE™ 92

TECHNICAL DATA SHEET v1 20230517

FireZone™ 92 is a clear water-based intumescent coating used to prevent the spread of flame on timber internal surface finishes such as walls and ceilings.

RECOMMENDED USE

FireZone™ 92 is the next generation in clear timber intumescent protective coatings. Independently tested for compliance to the NZBC C/AS2, table 4.3, achieving a Group 1S, the highest performance. **Now suitable for use on 9 mm timber with a minimum density of 338kg/m3.**

- **Interior surfaces only.** Not for external use.
- Two to three coat system. For increase durability, specify a double topcoat. Refer to ZONE for further recommendations.
- For moisture rich areas refer to FireZone™: Vanguard.
- Sprayed on-site or off-site, no special heating equipment required; able to be brushed or rolled.
- FireZone™ 92 must be applied strictly in accordance with the application instructions and wet film thickness requirements. The use of ZONE's preferred applicator network will smooth the installation process and provide relevant QA and compliance documentation.

SUSTAINABILITY

- Water-based
- Low VOC 69g/L
- Both base and topcoats are water-borne and environmentally friendly, with low VOC's.

DURABILITY – FIRE PERFORMANCE

FireZone™ 92 is a highly durable and flexible intumescent coating. Tested to EN13501-1:2018 in accordance with NZBC C/AS2 Clause 4.17 FireZone™ 92 system has achieved a B-s2-d0 European reaction to fire classification rating on timber with a minimum density of 338kg/m^3 and minimum thickness of 9mm, being a Type 1 substrate in accordance with NZBC C/VM2 Amendment 4, Table A.2.

TOPCOAT

FireZone™ 92-TC is a water based, clear finish topcoat, designed to provide serviceable and protective finishes to the FireZone™ 92 system. We recommend applying a decorative acrylic topcoat from your chosen paint supplier.

SPECIFICATION

FireZone™ 92 can be specified using Masterspec section 6743ZF which can be linked directly to your chosen timber suppliers Masterspec section. Contact ZONE for specification assistance.

FIRE PERFORMANCE

Independently tested for compliance to the NZBC C/AS2, table 4.3, achieving a Group 1S, the highest performance.

SUBSTRATE CHOICE

A minimum timber density of 338kg/m3 and thickness of ≥9mm is required.

APPLICATOR SPECIFICATION

Bare timber or pre-stained (water-based)

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Product	WFT Total	DFT Total	Spread Rate (Theoretical)
Basecoat	200µm	134µm	10m²/L @ 200µm WFT
Topcoat	83µm	33µm	12m²/L @ 83µm WFT
Adhesion Primer	83µm	22µm	12m²/L @ 83µm WFT
Previously Coated	200µm	134µm	10m²/L @ 200µm WFT
Previously Stained	200µm	134µm	10m²/L @ 200µm WFT

Spray: 2 coats @ 100µm WFT per coat

Previously coated

APPLICATION

FireZone™ 92 can be applied by brush, roller, or airless spray.

ALWAYS undertake an on-site sample of the product and obtain client/architect approval before proceeding. Ensure the opacity and finish is acceptable. If in doubt, contact the supplier.

Spray:

Pump: Piston pump, airless spray capable of achieving 3.5LPM rating at 3000psi, i.e. Graco 795, 1095 or equivalent.

Tip Size: 12-15 thou or similar

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

Pressure: 2500-3200 psi.

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

Use of dedicated spray lines is required to reduce cross contamination.

Brush:

Use premium quality synthetic filament blend brush or similar.

Roller:

Dacron type low nap sleeves are recommended, subject to the type of substrate surface. Laying off a rolled surface immediately with a brush is recommended.

Conditions:

Minimum of 12ºC and maximum of 70% relative humidity.

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

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

Product:

Pour contents into a pail and hand or power-mix for 5 minutes at 200-300rpm.

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.

Allow all waste products to dry and harden and dispose of in accordance with local authority requirements.

Recoat and dry times:

Recoat time is 4 hours with sufficient air flow at 25ºC 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: 12 months from sale date unopened
Pot Life: 60 days from time of opening

Topcoat:

Theoretical Coverage	Recommended film thickness per coat		Usual Number of Coats
	Wet	Dry	
12m²/litre	83	33	1 or 2

Air Temperature	10-15 ºC	15-25 ºC	25-30 ºC
Touch dry after	2 hours	1-2 hours	30 minutes
Hard dry after	24 hours	24 hours	24 hours
Over-Coating Time (minimum)	2 hours	2 hours	2 hours
Over-Coating Time (maximum)	N/A	N/A	N/A
Curing	21 days	21 days	21 days

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 a 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™ 92 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™ 92. 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 FireZone™ 92 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.