

FireZone FZ92 Clear Coat Intumescent

Product Technical Statement: 109221



Clear Coat Intumescent for Group 1S on internal timber surface linings

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Level of assurance needed to demonstrate NZ Building Code Compliance

Supporting documentation should include self-assessment and technical information by manufacturer



FireZone confirms that this minimum level of assurance has been met or exceeded by the following:



The following information has been provided by FireZone demonstrating how this product complies with the [Building Product Information Requirements](#).

Technical Statement

Product Class

CLASS 1

Product Description

FireZone 92 is a CLEAR intumescent water based coating which achieves a GROUP 1-S on most timber surface linings. The new tested and improved formula gives an excellent architectural finish while still ensuring the substrate remains compliant.

Features:

- Achieves Group 1-S
- Low VOC/ Waterbased system
- Spray, roll or brush application, on or off site
- Substantial track record for use in Europe and New Zealand
- Applied by Approved Applicators to ensure code compliance
- Can be applied over some stained or varnished substrates with the use of FireZone 92 Adhesion Primer

Scope of use

Fire Performance: Group 1-Son timber substrates (as defined by NZBC CVM2) with a minimum thickness of 9mm and minimum density of 338kg/m³. This covers almost all typically specified timber species.

Sustainability: Fully water based system, low VOC - 69g/L – fits within the Greenstar Build requirements

Environment: Suitable for internal dry environments only, for high moisture internal, semi-external, fully external please refer to FireZone Vanguard.

Application: Application by Zone's network of local approved applicators.

Finish: Clear coat finish, compatible with a range of water based stains

Durability: Relatively hard wearing topcoat, with double topcoat spec available for higher wear and tear environments.

Specification: Specify through Masterspec Section 6743ZF.

New Zealand Building Code (NZBC)

The product will, if employed in accordance with the supplier's installation and maintenance requirements, assist with meeting the following provisions of the building code:

- **Clause C3 Fire affecting areas beyond the fire source:** Performance C3.4(a)

FireZone 92 has been tested to EN13501-1:2018 in Europe achieving a B-d0-s1 classification. The classification is valid for timber substrates with a minimum thickness of 9mm and minimum density of 338kg/m³.

According to the NZBC C/AS2 Table C1.1 – a B-d0-s1 is the equivalent of a Group 1-S.

According to C/VM2 A1.6 – a surface applied system's fire rating is compliant on any timber substrate of the same or greater thickness and same or greater density.

Therefore FireZone 92 meets a Group 1-S fire rating on timber substrates ≥9mm in thickness and ≥338kg/m³ in density.



masterspec partner

Company Contact Details



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Notes

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The FireZone 92 system meets the Group 1-S, Group 1, Group 2-S, Group 2 and Group 3 interior surface lining requires as required by C3.4(a). Outlined in NZBC C/AS2 Clause 4.17.

Timber substrates must be for internal use only, with a minimum density of ≥ 338 kg/m³ and minimum thickness of ≥ 9 mm.

Timber substrates are defined in NZBC CVM2 Verification Method - Clause A1.6 Table A2 - Timber, Standard grade plywood, hardboard, fibre/particleboard.

Evidence

The product meets the requirements set out in the following documents, or relevant parts of cited standards within the documents:

EN13501-1:2018 - Fire classification of construction products and building elements

NZBC C/AS2 Acceptable Solution for Buildings other than Risk Group SH:

- Clause 4.17 Interior surface finishes, floor coverings and suspended flexible fabrics
- Table C1.1 Alternative test or classification standards for Group Numbers

NZBC CVM2 Verification Method: Framework for Fire Safety Design:

- Clause A1.6 Selecting a substrate for testing materials or coatings usually applied to a substrate,
- Table A2 Selection of substrate

Supporting Evidence

The product has and can make available the following additional evidence to support the above statements:

Use in Service History

Te Arai Cottages - Te Arai

Western Springs High School - Auckland

Commercial Bay - Auckland

Ahi Restaurant - Auckland

Auckland Uni B201 - Auckland

Ponsonby Central - Auckland

Ramada - Auckland

Woodward Road KO - Auckland

Textile Centre - Auckland

Little Wilderness - Auckland

Made Market - Hamilton

Hamilton Airport - Hamilton

Roofing Industries - Hamilton

Te Kuiti Sports Hub - Te Kuiti

Tairua Surf Club - Tairua

Rotorua Boys High School - Rotorua

Rotorua Airport - Rotorua

Total Span - Taranaki

KFC Palmerston North - Palmerston North

Hawkes Bay Airport - Hawkes Bay

Flaxmere College - Hawkes Bay

Wellington City Mission - Wellington

KFC Lower Hutt - Wellington

NZCIS - Wellington

St Mary's College - Wellington

KFC Blenheim - Blenheim

Cloudy Bay - Blenheim

Delegat Wines - Blenheim

Burwood Hospital - Christchurch

NZALS - Christchurch

Aspen Hotel - Queenstown

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Sudima Hotel - Queenstown

Bike It Now - Queenstown

Cardrona Cafe - Cardrona

Product Criteria

Design requirements

Specify when a clear coat finish is desired on timber substrates. Available in a matt or satin finish.

Interior dry application only.

Clear adhesion primer available for previously coated substrates.

Water based stains can be applied prior to the FireZone 92 system without the adhesion primer.

Double topcoat specification available for higher wear and tear environments.

Installation requirements

FireZone 92 must be applied by a Zone approved applicator.

Can be applied on or offsite.

See FireZone 92 technical data sheet for in depth application requirements.

Maintenance requirements

FireZone 92 system should be checked by the building owner or maintenance team for mechanical damage or moisture damage.

If damage is observed please get in touch with Zone Architectural Products for guidance or refer to the FireZone 92 Maintenance Guidelines.

The FireZone 92 system may require another topcoat application 5-7 years after initial application.

Warrantees

A product warranty is available on a project by project basis for up to 5 years.

Please ensure this is included in the specification and the warranty form is completed prior to application.

Company Product Information

Environmental

The FireZone 92 system is fully water based and low VOC (69g/L) and appropriate for Green Build and Living Building Challenge projects with an in service history to support this.

Building Product Information Requirements

Manufacturer

Legal Trading Name:

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Product Identifier

FIREZONE 92 ADHESION PRIMER FIREZONE 92 BASECOAT FIREZONE 92 TOPCOAT

Warnings

This product has no warnings associated with it.



Date last validated: **11 December 2023**



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