

# Zone Jotun Steelmaster 600WF waterborne intumescent coating

Product Technical Statement: 113760



Designed to provide up to 90 minutes FRR on structural steel. Achieves BS476 Part 20/21.

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## Level of assurance needed to demonstrate NZ Building Code Compliance

Supporting documentation should include technical information by manufacturer and either a BRANZ or independent Appraisal or CodeMark



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

Warrington Fire

[Certifire Certificate of Approval - CF 5631](#)



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

## Technical Statement

### Product Class

CLASS 1

### Product Description

A high solid one component waterborne acrylic thin film intumescent coating. Independently approved for fire protection of structural steel exposed to cellulosic fire. Can be used as mid coat or finish coat in atmospheric environments. Suitable on approved primers on carbon steel substrates.

High solids means it can be applied across a wider range of environments not only making application a faster and easier process but allowing the design of steel structures to be a prominent feature of the architectural design.

Provides a durable coating that can be applied to up to a ISO12944 C3 environment with a topcoat.

Easy airless spray application reduces application time and site costs.

National Approved Applicator network ensures QA standards are maintained.

### Scope of use

Specially designed as a reactive fire protection system for steel constructions. Designed to protect up to 90 minutes on a wide range of I section beams and columns. Fire tested and approved to BS 476 part 20/21.

Suitable for structural steel exposed to internal environments up to corrosivity category C3 (ISO 12944-2), with a compatible topcoat.

Approved Applicator product.

Requires suitable and compatible primer over properly prepared steel, applied in suitable conditions strictly following application instructions. Suitable and compatible protective coating systems required in most exterior environments.

Contact Zone for tested / approved / compatible systems.

Required film thicknesses to achieve FRR's will be calculated by Zone / Jotun.

### 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 B2 Durability:** Performance B2.3.1, B2.3.1(b), B2.3.1(c), B2.3.2, B2.3.2(b)  
Tested to ISO 12944.2: 2017 the system can provide durability up to 25 years in accordance with AS/NZS 2312.4.
- **Clause C6 Structural stability:** Performance C6.2, C6.2(a), C6.3, C6.4  
Tested to BS 476 part 20/21: Certifire CF 5631

### Notes

When specified, applied and maintained as designed and documented, and as described in Fire Protection Association (FPANZ) Code of Practice for the Specification and Application of Intumescent Coatings for the Fire Protection of Structural Steel. CoP-03 Version 1, Issued 01/10/20, Jotun SteelMaster 600WF will achieve the above Technical Requirements of the New Zealand Building Code (NZBC).

masterspec partner

### Company Contact Details

zone™  
architectural products

Company: Zone Architectural Products

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Durability to B 2.3.1(b) & B 2.3.1(c) is determined by the overall coating system and specification - contact Zone for assistance if required.

## Evidence

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

In the case of fire, Jotun SteelMaster 600WF intumescent coating will maintain the structural integrity of the steel to which it is applied for the rated period in accordance with BS476 Part 20/21. Designed with an approved primer and protected with an approved topcoat the system can provide durability up to 25 years in accordance with AS/NZS 2312.4.

## Supporting Evidence

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

Warrington Fire  
[Certifire Certificate of Approval - CF 5631](#)

## Product Criteria

### Design requirements

Specially designed as a reactive fire protection system for steel constructions. Designed to protect up to 90 minutes on a wide range of I section beams and columns. Fire tested and approved to BS 476 part 20/21. Suitable for structural steel exposed to internal environments. For a detailed coating specification please contact your local Zone/Jotun representative.

### Installation requirements

The required quality of surface preparation can vary depending on the area of use, expected durability and if applicable, project specification. Metal surface preparation refers to requirements for preparation prior to application of approved primers.

This product must always be applied over a primer approved by Jotun. Only approved and qualified primers can be used in conjunction with this product.

Intumescent coatings require a greater degree of environmental monitoring than conventional coatings. They are moisture sensitive and must be protected against high humidity, rain and consequent water ponding both during application, transportation or during storage prior to being erected at site. Where a topcoat is specified, application must occur as soon as the final coat of this product is fully through dry. During construction, exposed SteelMaster must be protected from weather with a topcoat.

Refer to Application guidelines for more in depth documentation.

### Maintenance requirements

The coating system shall be maintained by Owner who needs to ensure the coating systems are inspected at regular intervals not exceeding 18 months and an inspection report is made. Any damage or coating imperfections detailed in the report and not covered under the provisions of a Jotun Guarantee shall be repaired as quickly as reasonably practicable but in no event later than 6 months after the date of inspection. These repairs shall be carried out in accordance with Guarantor's recommendations using Guarantor's products. Guarantor shall upon request receive copies of Owner's inspection reports.

### Warrantees

Jotun provides a Product Performance Guarantee for specified systems when applied and maintained in accordance with the manufacturer guidelines.

## Company Product Information

### Environmental

This product contributes to Green Building Standard credits by meeting the below requirements (summary provided, more information can be found on the product TDS):

LEED v4 and 4.1 2013/2020 - VOC Content, REACH Optimization & REACH Authorization list

BREEAM International Hea 02: Hea 02 and Mat 01 VOC content for one-pack performance coatings WB

BREEAM NOR (2016) - Mat 01

This product is tested by RISE Research Institutes of Sweden/SP Technical Research Institute of Sweden or Eurofins in accordance with the ISO 16000-9/10 (2006) and CDPH method 1.1 (2010)/1.2 (2017), and complies with the emission demands of the French AFSSET (2011), German AgBB (2017) and Belgian decree (2014).

EPD available at [www.epd-norge.no](http://www.epd-norge.no)

### Quality Assurance



ISO 9001 (Quality Management)

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## Relationships



Member of New Zealand Green Building Council

## Building Product Information Requirements

### Manufacturer

**Legal Trading Name:**

Proline Protective Coatings

**Company Website:**

<https://prolinepc.nz/>

**Contact Number/s:**

0508568867

### Importer

**Legal Trading Name:**

Zone Architectural Products

**Business Email:**

info@zone.net.nz

**Company Website:**

[www.zone.net.nz](http://www.zone.net.nz)

**Contact Number/s:**

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### Product Identifier

JOTUN STEELMASTER 600WF

### Warnings

This product has no warnings associated with it.



Date last validated: **17 June 2024**



Date last updated: **17 June 2024**

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