

Intumescent Coatings

Product Catalogue



Intelligent Engineered Passive Fire Protection

For over 40 years, Nullifire has been a market leader in intumescent and fire stopping solutions, with one focus that has not and will not change: *“To protect people and buildings from fire”*.

Passive fire protection is highly complex but crucially important, especially as buildings become more sophisticated. At Nullifire, they understand the need to have confidence in fire protection, so they provide systems that perform when they are called upon.

With a unique team of technical experts, everything is focused on providing what the client needs at every stage of their project smart protection.

Nullifire is a brand of Tremco Construction Products Group; a global manufacturer and service provider of high performance building materials.

Nullifire intumescent coatings are distributed in Australia by PERMAX

Introduction	02
Complete Smart Solutions	04
Product Selection	05
Product Suitability	06
Fast Track, High Build Solutions	08
Water Based Solutions	10
Certification and Accreditation	14

Assistance When Required

Our targeted approach allows you to access answers to all of your questions - quickly, simply and for every phase of your project.

Regardless of the complexity of a project, you can turn to the team here at Permax. Our trained expert team support architects, specifiers, main contractors and installers in product selection, specification writing and industry best practices. Involving us at the early stages of a project can help you save money and time, as well as the assurance that the products selected are fully compatible, compliant and suitable for the job at hand.

Whilst choosing the correct product is vitally important, the application is equally as critical. Nullifire intumescent coatings are applied professionally and efficiently by trained and approved application contractors who are able to access new technologies and solutions through Permax.

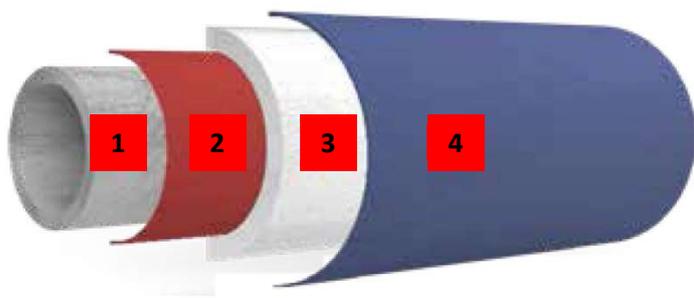
For more information visit: www.permax.com.au or phone: 07 3865 5554

Complete Smart Solutions

Smartly Designed Solutions

Products engineered for compatibility: The Nullifire intumescent coatings range is designed to provide a complete system for fire protection and decoration of structural steel.

Minimising the risk of problems occurring on site, we can assure you that when using a complete Nullifire solution, you will achieve the desired look, feel and protection for the project.



1. Steel Section
2. Compatible Nullifire or Approved* Primer
3. Selected Nullifire Intumescent Coating
4. Compatible Nullifire or Approved* Top Seal

* Please contact our Technical Services team for information on approved primers and top seals

1. Steel Section

Our range of intumescent coatings, with approved primers and top seals can be used on a mixture of steel sections and are suitable for areas up to C4. For more specific enquiries, please refer to the technical data sheets or contact a member of the Permax Technical Services team.

2. Primer

Inhibits corrosion of the underlying structural steel. Primers also provide a key for the intumescent coatings. If using SC902, primers may not be required (contact our Technical Services team for more information, prior to use).

3. Intumescent Coating

The intumescent coating is applied to the correct thickness to provide the specified level. Please contact our Technical Services team for intumescent thickness calculations.

4. Top Seal

A smooth hardwearing finish to seal the intumescent coating which protects from the impact of weather. The decorative aspect of the top seal provides an aesthetically attractive appearance.

* It is recommended that primers, Nullifire intumescent coatings and top seals are applied by experienced specialists.

Full details of our approved application contractors can be obtained by contacting the Technical Services team.

The Faster Way to The Smarter Solution

Quickly identify the right product for the project.

This selector provides an at-a-glance overview of the Nullifire steel protection range as supplied in Australia. Before referring to more detailed information about each product, use the selector to:

Review and compare products and their specific functions

Find suitable products for specific applications

Always check the product application or technical data sheet for specific guidance and instructions.

Exposure Scenario	Water Based Intumescent	Hybrid Intumescent
AS2312.1	SC803 Internal Only	SC902 Internal/External
C1	✓	✓
C2	✓	✓
C3	†	✓†
C4	X	††
	† Consult with Permax	† Can be left exposed externally for up to 4 months without top sealing



Product Suitability

Smartly Designed Solutions

Nullifire products listed are suitable for areas up to C4*. For project specific enquiries, please contact Permax for technical advice. Remember that many projects could have a mixture of classification environments, which have to be considered independently.

* Atmospheric environments noted in the above table are classified into C1- C4 atmospheric corrosivity categories in accordance to AS2312.1:2014

C1: Very Low Corrosion Risk

Interior:

Heated or air conditioned buildings with clean atmospheres (e.g. commercial offices, shops, schools and hotels)

Exteriors:

N/A

C2: Low Corrosion Risk

Interior:

Unheated or non-airconditioned buildings where some condensation may occur: (e.g. warehouses, sports halls etc.)

Exteriors:

Dry areas beyond at least 50kms from the sea but can be as close as 1km if sheltered and protected.

C3: Medium Corrosion Risk

Interior:

Production rooms with high humidity and some air pollution (e.g. food processing plants, laundries, breweries etc.)

Exteriors:

Urban and industrial atmospheres, moderate pollution zones, coastal areas with low salinity within 1 to 50kms from the sea.

C4: High Corrosion Risk

Interior:

Damp contaminated environments e.g. Chemical and processing plants, swimming pools, micro climates, etc.

Exteriors:

Industrial areas and coastal areas with moderate salinity which can be 50m inland and up to 1.5km from the shoreline, depending on location and prevailing conditions.



Fast Track, High Build Solutions

One-Coat Protection

SC902 is an innovative patented intumescent coating delivering ground breaking performance for the protection of internal, semi-exposed, and external steelwork. Suitable for both on-site and off-site work.

Exposure Scenario		Hybrid Intumescent
AS2312.1	ETAG 018-2: 2011 Environment Classification	SC902
C1	Z2 – Dry Internal	✓
C2	Z1/Y – Humid Internal/Semi-Exposed	✓
C3	Y/X – Humid Internal/Exposed External	✓
C4	X – Fully Exposed External	✓

Can be left exposed externally for up to 4 months without top sealing



SC902

Fast Track Intumescent Coating

Product Overview

SC902 is a fast-track, on-site, low VOC, one-coat, high-build system, based on patented technology. Designed to provide up to 120 minutes fire resistance to “I” section beams, columns, hollow columns and cellular beams.

Advantages at a glance:

- Fire rating up to 120 minutes tested to BS476 and EN13381: Part 8 and assessed to AS1530.4-2014 and AS4100
- Fast cure: early weather resistance, shower proof within 1 hour.
- Achieves external durability with an approved top seal
- Cures below 0°C and fully dry by the following day
- Self-priming system up to 2 weeks post blasting
- High-build potential with all rating possible in one application.

Properties (typical values)

Specific Gravity	Part A: 1.55±0.02, Part B: 0.99±0.01, Mixed: 1.46±0.02
Volume Solids	85% ±3%
VOC	137 g/l
Viscosity	Part A: 140 ±20 Poise (Spindle 7 @50 rpm) Part B: 10 ±1 Poise (Spindle 7 @50 rpm) Mixed: 80 ±10 Poise (Spindle 7 @50 rpm)
Mix Ratio	By weight 100:12, by volume 5.6:1
Pot Life	Minimum 60 minutes
Theoretical Coverage	1,750 g/m ² based on applied 1.00 mm dry film thickness
Storage	Store in secure, dry warehouse conditions between +5°C and +35°C
Shelf Life	12 months when stored as recommended in original unopened container



Economical & Versatile

Nullifire water-based solutions offer safe, fast and economical fire protection for internal steelwork. Nullifire pioneered water-based intumescent coating technology.



SC803

Intumescent Coating

Product Overview

SC803 Intumescent Coating is a water-based, white, thin film intumescent coating for the protection of internal structural steelwork. Optimised to provide 60 minutes fire resistance to

“I” section beams, columns, hollow columns and hollow beams.

Limited 90 minute protection is also available.

Advantages at a glance:

- Ultra low VOC
- Market leading loadings
- Compatible with a wide range of primers and topcoats
- Easy to apply
- Assessed to AS1530.4-2014 and AS4100 compliance



Properties (typical values)

Specific Gravity	1.38 ± 0.02
Volume Solids	69% ± 3%
VOC	0.5 g/l
Theoretical Coverage	1,000 g/m ² based on applied 0.5 mm dry film thickness
Storage	Store in secure, dry warehouse conditions between +5°C and +35°C
Shelf Life	12 months when stored as recommended in original unopened container



Certification and Accreditation

Nullifires passive fire protection solutions have been tested to many of the latest International standards, providing the highest levels of certification. Installing Nullifire products will provide a system that is not only fit for purpose today, but will meet changing legislation in the future.



Nullifire products are manufactured by CPG UK to rigid standards of quality. Any product which has been applied (a) in accordance with CPG UK written instructions and (b) in any application recommended by CPG UK but which is proved to be defective, will be replaced free of charge. No liability can be accepted for the information provided in this leaflet although it is published in good faith and believed to be correct. CPG UK Limited reserves the right to alter product specifications without prior notice, in line with company policy of continuous development and improvement.



Nullifire
Smart Protection

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