



NEW

S708

30 & 60 MINUTES FIRE PROTECTION

MOISTURE RESISTANT

waterborne intumescent coating

FOR SEMI-EXPOSED STRUCTURAL STEEL

WITH FULL EXTERNAL DURABILITY
THROUGHOUT THE BUILDING PHASE

Nulli-fire[®]

INTUMESCENT FIRE PROTECTION WITHOUT COMPROMISE

Nullifire S708 the eco-friendly alternative to solvent-based products. Offers faster, safer protection for internal and semi-exposed steelwork, even if fully exposed during building

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FOR SEMI-EXPOSED STRUCTURAL STEEL



SOLVENT-BASED NO LONGER REQUIRED

Unprotected structural steel is vulnerable to weather when fully exposed during construction. So, until now, external-rated solvent-based protection has been the necessary answer.

Solvent-based coatings tend to trap solvent during curing, and can remain soft and susceptible to damage. They may also emit solvent-volatiles for weeks after application.

This can cause irritation to the building occupiers, including other trades as construction continues. In less-well-ventilated areas, such emissions can represent a health hazard as well as threaten the environment.

SAFER, FASTER, ECOLOGICAL ANSWER

This dilemma, and potential delay to construction, can now be avoided by using an enviro-responsible alternative to solvent-based systems. Nullifire's innovative S708 coating is water-based. During application and curing, it is low odour and solvent emission-free.

PROTECTIVE BASECOAT FOR DECORATION

Most significantly, S708 quickly dries to a smooth robust, white finish that can be fully exposed to the environment for up to 6 months* without a decorative top seal. So, during that period, it won't be a problem if the building has yet to be closed or made watertight.

It can be applied on or off-site. When used in C1 and C2 classification building environments it needs no protective top seal and so delivers an even faster and more economical system.

*As with solvent-based coatings, pooling water from rainfall, condensation or other circumstances must be avoided at all times.

VOC COMPARISON

Volatile organic compound

Traditional solvent-based coating:
over 200 g/litre

S708 water-based coating:
less than 20 g/litre

S708 COATING

Fully Tested and Approved

- BS 476:Part 20/21:1987, in line with the BCF industry guidance document for 30 and 60 minutes
- Durability tested in accordance with the forthcoming requirements for CE marking (ETAG018 Part 2 2006) for internal, semi-exposed and external environments

- Surface spread of flame and propagation tested to BS 476: Parts 6/7, Class O
- Smoke and Toxicity tested to EN 13823 (SBI) and IMO smoke/toxicity

Hi-Solids Content

- For thinner film and faster application

Hi-Build Technology

- For single coat application, providing exceptional results faster

Compatibility

- With standard S707 range of coatings

		S708 Waterborne Intumescent Basecoat
Properties	Area of Use	Internal/Semi-exposed
	S.G	1.38
	Volume Solids	70% ±2%
	Flash Point	N/A
	Colour	White
Technical	Preparation	Onto clean dry compatible primer
	WFT/Coat µm	Brush: <1000 Spray: <1600
	DFT/Coat µm	Brush: <700 Spray: <1120
	Drying Time	24 hours between coats at >10°C
	Over Coating	Minimum 24 hours at >10°C before top seal application
	Fire Performance	30 and 60 minutes
	Steel Sections	Universal beams and columns, cellular beams
Certification		FIRE BS 476:Parts 20/21, BS 476:Parts 6/7 Class 0, EN13823 (SBI) and IMO smoke/toxicity
		DURABILITY ETAG018 Part 2 2006
Top Seal Requirement	Internal Environments, CI & C2	No top seal required TS816WAC for decorative finish optional
	Permanently Semi-exposed Environments	No top seal required TS815SAC for decorative finish optional
	Construction Phase Durability: Up to six months fully-exposed	No top seal required TS815SAC or TS818WPU for decorative finish optional
	Greater than six months fully-exposed	Consult Nullfire Technical Desk
General	Application Method	Airless spray, short pile roller and brush
	Container Size	25kg Drum

S708 SYSTEM

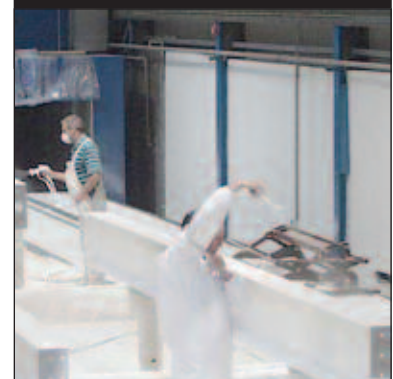
30 & 60 minutes fire protection in a single coat

On-site benefits

- Fast cure
- Thin film
- Less disruption to other trades
- No special storage requirements
- Eases the strain of construction on the environment
- Low odour
- Very low VOC content
- Reduced Health & Safety risks to other trades/general public
- Environmentally friendly
- No solvent entrapment or prolonged solvent odour
- Low waste cost
- Easy clean down of equipment

Durability

- When fully cured, may be exposed to weathering for up to 6 months* without a top seal
- No protective top seal required for C1 and C2 classification buildings
- Smooth hard finish, unlike traditional solvent-based systems, which tend to remain soft and vulnerable to damage



VERSATILE SYSTEM WITH PROVEN PERFORMANCE

Nullfire has pioneered the use of intumescent coatings for the decorative fire protection of structural steelwork for a generation.

S708 has been developed to replace solvent-based products on and off-site. It is an advanced water-based basecoat that provides a durable and attractive white surface, similar to a paint finish. In a fire, the S708 film expands to many times its original film thickness. This provides an insulating foam-like coating or 'char' to protect steelwork against heat build-up and the effects of fire.

Primer

To protect the steel against corrosion and prepare the surface. This provides a key for the application of the basecoat.

Basecoat

The S708 intumescent coating itself, applied on-site to a measured thickness to provide the specified level of fire protection.

Top Seal

A hard decorative finish to seal in the basecoat and provide an attractive, high quality appearance.

Application

Nullfire Primer, S708 Basecoat, and Top Seal are applied by fully trained specialist approved contractors, ensuring a high quality service and finish.

CHANGING INTUMESCENT COATINGS FOR GOOD

Nullfire takes its responsibility for product innovation beyond the protection of the steel structure.

It strives to minimise the harm that traditional fire protection systems may cause the user and the environment.

To this end Nullfire's range of water-based S707 was developed to replace the need for solvent-based products used for internal steel protection.

Its success was a major step in overcoming perceptions that water-based coatings were less durable than solvent-based alternatives.

Nullfire's advance in technology continues with the introduction of the NEW S708.

Nullfire S708 has answered the industry need for a solvent-free intumescent fire protection system for semi-exposed steel.

In addition, S708 provides protection for fully-exposed steel for up to 6 months* during the construction phase, whilst reducing Health and Safety and environmental impact.

When once only solvent-based products would be used, S708 is now the natural, safe, environmentally friendly replacement.

S708 is the next generation of intumescent coatings, having passed rigorous durability testing.

Anticipating future legislation, Nullfire have included the forthcoming CE markings (ETAG018 Part 2 2006) for internal, semi-exposed and external environments.

S708 is yet another advance in the technological superiority of intumescent water-based coatings. Delivering all the benefits of solvent-based coatings but without the solvent.

COMPREHENSIVE TECHNICAL SUPPORT

Nullfire S708 is backed by full technical information, including

- Loading tables
- Technical Data Sheets
- Fire engineering support
- Materials estimating program
- Application and product training

Expert support and assistance is available for every stage of a project, from product selection and specification to installation and verification.

CONTRACTS SUPPORT

Nullfire operates a unique team of fully trained contract support engineers.

They are available to assist in project management and schedule planning to meet project time scales. They also provide on-site or off-site inspection* to ensure correct application of all Nullfire products.

For information or assistance, contact Nullfire today:

Tel: 024 7685 5000

Fax: 024 7646 9547

Email: protect@nullfire.com



***NOTE:** Applicable to areas accessible for inspection only. Those parts of the structure to which access cannot be gained, for example areas made inaccessible by subsequent construction work, are outside the scope of Nullfire inspection and verification.

Nullifire®

SPECIALIST EXPERTISE YOU CAN RELY ON

Nullifire has been at the forefront of the development of intumescent fire protection systems for over 25 years. Totally focused on fire protection, the company has worked with the world's leading architects, providing fire protection solutions for many of the major buildings of our time.

Nullifire offers high performance, fire protective solutions for:

Steelwork

Decorative, durable off-site and on-site systems for interior and exterior steelwork

Timber

Decorative system in matt or satin clear finish and a full range of RAL and BS 4800 colours

Construction joints

Fire seals for joints, gaps and profiled metal sheeting

Service penetrations

Lightweight, flexible barriers to maintain compartmentation

Call Nullifire Technical Services Department for full details

Tel: 024 7685 5000

Fax: 024 7646 9547

Email: protect@nullifire.com

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**WITH 6-MONTH EXTERNAL
RATING DURING CONSTRUCTION**



All information in this brochure is provided in good faith by Nullifire Limited and is believed correct at the time of printing. Nullifire Limited reserve the right to change product specifications in line with their policy of continuing product development

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Nullifire

Part of the **TREMCO** Group of Companies
illbruck

Nullifire Limited

Torrington Avenue, Coventry
CV4 9TJ, United Kingdom

Telephone +44 (0)24 7685 5000

Facsimile +44 (0)24 7646 9547

e-mail protect@nullifire.com

website www.nullifire.com

An **PPM** Company



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