

S707

30, 60, 90 & 120 MINUTES
FIRE PROTECTION

ON-SITE & OFF-SITE WATERBORNE
decorative intumescent coating
FOR STRUCTURAL STEEL

Nulli-fire[®]

INTUMESCENT FIRE PROTECTION WITHOUT COMPROMISE

Nullifire S707
waterborne solutions
offer faster, safer and
more economical
fire protection to
internal steelwork than
solvent-based solutions



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ON-SITE & OFF-SITE WATERBORNE decorative intumescent coating FOR STRUCTURAL STEEL

ENVIRONMENTALLY FRIENDLY SYSTEM

Waterborne and halogen free, the S707 range has low VOC content, making it suitable in less well ventilated areas.

S707 is ready to use (requiring no thinning) and is easy to spray. Conventional airless manual or automated spray systems may be used. S707 may be applied by roller or brush, using a 'laying on' technique to avoid heavy brush marks.

SMOOTH, HARD- WEARING FINISH

S707-60 is white, S707-90 is light blue and S707-120 is light grey in colour. All products dry to a smooth, robust finish. This avoids the need for top seal in non-decorative areas of C1 buildings, providing even faster and more economical construction times.

PROTECTION AND DECORATION

The S707 range of fast drying, waterborne decorative intumescent coatings are designed for on-site and off-site application. In C1 buildings not requiring a decorative finish, no top seal is necessary.

S707 Range

- **Fully tested and approved**
 - BS476: Part 20/21: 1987, in line with the ICF and ASFP guidelines for 30, 60, 90 and 120 minutes
 - Surface spread of flame and propagation tested to BS476: Part 6/7, Class 0
 - Smoke and Toxicity tested to EN 13823 (SBI) and IMO smoke/toxicity
 - Fully tested on Cellular beams in accordance with the ASFP method
 - Yellow Book and ICF approved
- **Hi-Solids content**
 - For thinner film and faster drying time
- **Hi-Build technology**
 - For single coat application, providing exceptional results – faster



COMPREHENSIVE RANGE

S707-60 System

30, 60 and 90 minutes fire protection.
Achieved in a single coat.

S707-90 System

60, 90 and 120 minutes fire protection.

S707-120 System

90 and 120 minutes fire protection.

All S707 Systems are waterborne and formulated for maximum application benefits.

Reducing application time

- Up to 30% faster drying/overcoating times compared to traditional solvent-based coatings
- Reduces overall site costs

Smooth decorative finish

- Smooth hard finish, unlike traditional solvent-based systems, which tend to remain soft and susceptible to damage
- No top seal required in non-decorative C1 buildings

Solvent free systems

- Low odour
- Low VOC content
- Low risk
- No solvent entrapment, or prolonged solvent odour
- Safe to use in confined spaces
- Reduced potential Health & Safety risks to application personnel, other trades and the general public
- Environmentally friendly

All S707 systems deliver high quality protection and finish.

		S707-60 Waterborne Intumescent Basecoat	S707-90 Waterborne Intumescent Basecoat	S707-120 Waterborne Intumescent Basecoat
Properties	Area of Use	Internal	Internal	Internal
	S.G	1.35	1.41	1.37
	Volume Solids	72% ± 3%	68% ± 2%	68% ± 2%
	Flash Points	NA	NA	NA
	Colour	White	Light Blue	Light Grey
Technical	Preparation	Onto clean dry compatible primer	Onto clean dry compatible primer	Onto clean dry compatible primer
	WFT/Coat µm	Brush: <600 Spray: <1200	Brush: <600 Spray: <1200	Brush: <600 Spray: <1200
	DFT/Coat µm	Brush: <430 Spray: <860	Brush: <400 Spray: <816	Brush: <410 Spray: <820
	Drying Times*	24 hours between coats at >10°C	24 hours between coats at >10°C	24 hours between coats at >10°C
	Overcoating	Minimum 24 hours at >10°C before top coat	Minimum 24 hours at >10°C before top coat	Minimum 24 hours at >10°C. Heavy loadings may require longer
	Fire Performance	30, 60 and 90 minutes	60, 90 and 120 minutes	90 and 120 minutes
	Steel Section	Universal, hollow sections and cellular beams	Universal beams and columns	Universal, hollow sections and cellular beams
Certification	BS476: Part 20/21 BS476: Part 6/7 Class 0 EN13823 (SBI) and IMO smoke/toxicity Certifire fully tested on cellular beams	BS476: Part 20/21 BS476: Part 6/7 Class 0 EN13823 (SBI) and IMO smoke/toxicity	BS476: Part 20/21 BS476: Part 6/7 Class 0 EN13823 (SBI) and IMO smoke/toxicity Certifire fully tested on cellular beams	
Top Seal Requirement	Overcoating	Top seal within 1 month	Top seal within 1 month	Top seal within 1 month
	Building Classification†	C1, C2 and C3 buildings	C1, C2 and C3 buildings	C1, C2 and C3 buildings
General	Application Method	Airless spray, short pile roller or brush	Airless spray, short pile roller or brush	Airless spray, short pile roller or brush
	Container Size	25kg Drum	25kg Drum	25kg Drum

* Average drying times based on typical DFT. Drying time is very dependent on temperature/humidity/air movement – refer to application notes.

† For building classification outside of this range please refer to Nullifire's technical services department.



C1, C2, C3 Building Classification

Guidance to the corrosion protection of steelwork, from 'The Prevention of Corrosion on Structural Steelwork' published by Corus.

C1: Very low corrosion risk, warm dry interior application, for example offices, shops, residences, schools, hospitals, airports

C2: Low corrosion risk, steelwork exposed to moisture, for example sports halls, exhibition halls, vehicle depots

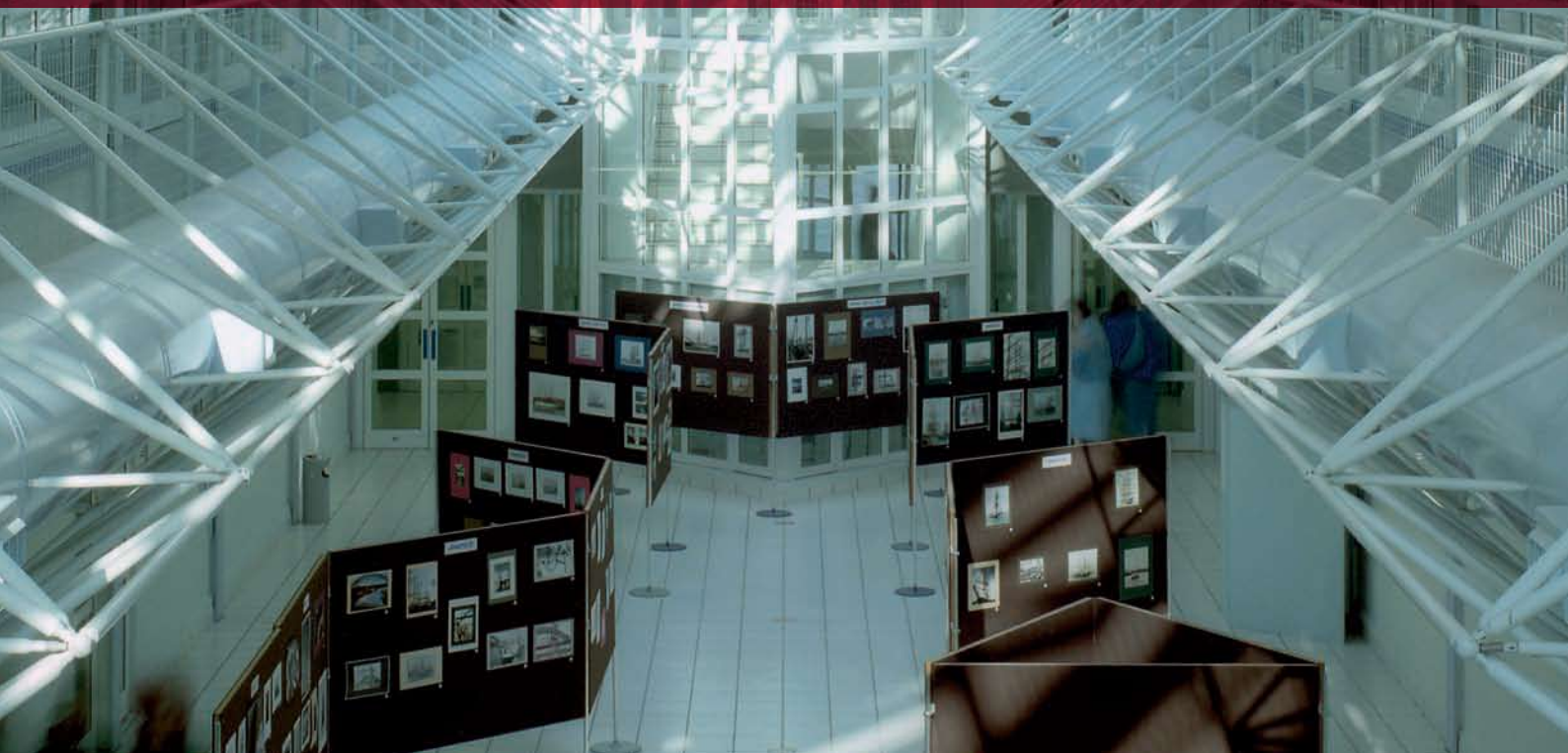
C3: Medium corrosion risk, steelwork exposed to moisture and pollution, for example food processing, dairies, breweries etc.

For further information on C1, C2 and C3 Building Classifications and applications outside this range, for example stadia, swimming pools, chemical plants and other areas where steelwork is exposed to high levels of moisture or corrosive pollutants, please consult Nullifire Technical Services Department.

EXCEPTIONAL, SUSTAINABLE APPEARANCE

Top seal for S707 (where required) is available in a range of RAL or BS4800 colours. It contains no fibres, and is therefore suitable for areas where delicate electronic instruments are manufactured or used. The satin finish is easy to maintain by simply wiping clean with a damp cloth.

***NOTE:** Although the risk of damage to the intumescent coating is minimal, a repair kit is available for making good any damaged areas on site without detracting from the S707 finish or performance.



VERSATILE SYSTEM WITH PROVEN PERFORMANCE

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

S707 is the most advanced and versatile waterborne basecoat of its type. It provides a durable and attractive surface, similar to a paint finish. However, in a fire, the S707 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.

The system, applied to correctly prepared steel, typically comprises two or three layers, depending upon the application:

Primer

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

Basecoat

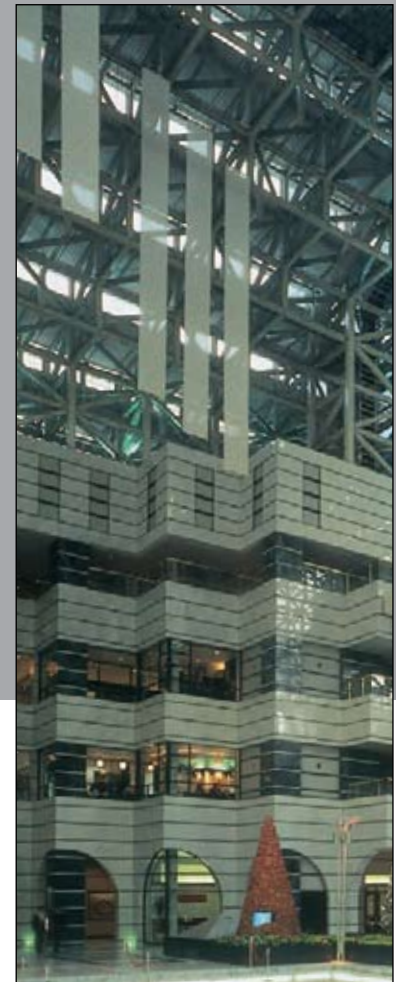
The S707 intumescent coating itself, applied on-site to a measured thickness to provide the specified level of fire protection.

Top Seal

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

Application

Nullifire Primer, S707 Basecoat, and Top Seal should be applied by fully trained specialist approved contractors, ensuring a high quality service and finish.



COMPREHENSIVE TECHNICAL SUPPORT

Nullifire S707 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.

CONTRACT SUPPORT

Nullifire 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 inspection¹ to ensure correct application of all Nullifire products.

For information or assistance, contact Nullifire today:

Tel: 024 7685 5000

Fax: 024 7646 9547

Email: protect@nullifire.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 Nullifire 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

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

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