



S707

**30, 60 & 120 MINUTES
FIRE PROTECTION**

ON-SITE, WATERBORNE
decorative intumescent coating
FOR STRUCTURAL STEEL

Nulli-fire®

TAKING THE LEAD IN BETTER FIRE PROTECTION

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



S707

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ON-SITE, WATERBORNE decorative intumescent coating FOR STRUCTURAL STEEL

ENVIRONMENTAL FRIENDLY SYSTEM

Waterbourne 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 and S707-120 is light grey in colour. Both 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 is a fast drying, waterbourne decorative intumescent coating designed for on-site application. S707 can remove the need for top seal in non-decorative C1 buildings*.

S707 Range

■ Fully tested to

BS476: Part 20/21: 1987, in line with the ASFP yellow book for 30, 60 and 120 minutes fire protection

■ 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 and 60 minutes fire protection in a single coat, providing faster application

Reducing application time

- Reducing overall site costs
- Reducing possible health and safety risks to other trades and the general public

Solvent free system

- Low odour
- Low VOC content
- Low risk
- Environmentally friendly

Smooth decorative finish

- No top seal required in non-decorative C1 Buildings*
- Reduced costs
- Reduced application time

S707-120 System

Waterbourne coating with 120 minutes fire protection

- Up to 30% faster drying/overcoating times compared to traditional solvent-based systems
- No solvent entrapment, or prolonged solvent odour
- Smooth hard finish, unlike traditional solvent-based systems, which tend to remain soft and susceptible to damage

Solvent free system

- Low odour
- Low VOC content
- Low risk
- Environmentally friendly

Smooth decorative finish

- No top seal required in non-decorative C1 building*
- Reduced costs
- Reduced application time

		S707-60 Waterbourne Intumescent Basecoat	S707-120 Waterbourne Intumescent Basecoat
Properties	Area of Use	Internal	Internal
	S.G	1.39	1.39
	Volume Solids	72%	68%
	Flash Points	>55°C	>55°C
	Colour	White	Light Grey
Technical	Preparation	Onto clean dry compatible primer	Onto clean dry compatible primer
	WFT/Coat µm	Brush: <1000 Spray: <1600	Brush: <1000 Spray: <1500
	DFT/Coat µm	Brush: <720 Spray: <1152	Brush: <680 Spray: <1020
	Drying Times	24 hours between coats at >10°C	24 hours between coats at >10°C
	Over Coating	Minimum 24 hours at >10°C before top coat	Minimum 24 hours at >10°C heavy loadings may require longer top coat
	Fire Performance	30 and 60 minutes	120 minutes
	Steel Section	Universal and hollow sections	Universal and hollow sections
	Certification	BS476: Part 20/21: 1987 ASFP Approved	BS476: Part 20/21: 1987 ASFP Approved
Top Seal Requirement	Over Coating	Top seal within 1 month	Top seal within 1 month
	Building Classification	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
	Container Size	25kg Drum	25kg Drum

***NOTE:** Average drying times based on typical DFT. For building classification outside of this range please refer to Nullfire'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

Nullfire 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 white 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

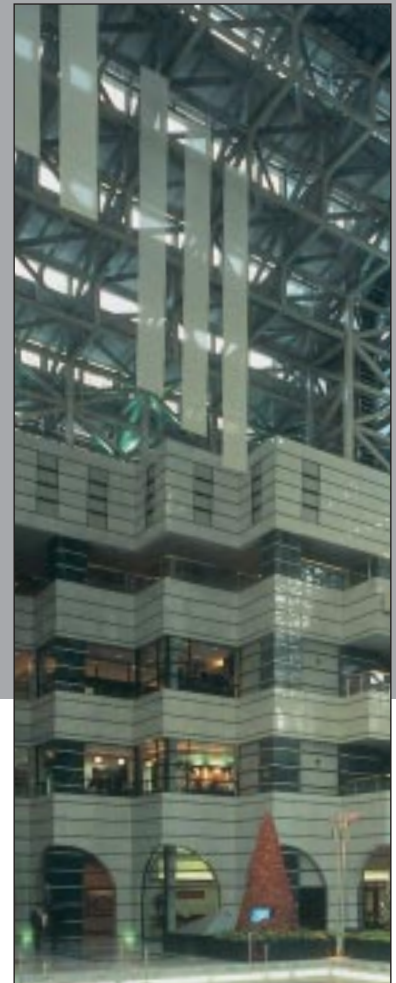
The S707 intumescent coating itself, applied on-site to a measured thickness to provide the specified level of fire protection.

Top Seal

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

Application

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



COMPREHENSIVE TECHNICAL SUPPORT

Nullfire 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.

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 inspection¹ 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

¹**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

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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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Certificate No.FM12160
BS EN ISO 9002:1994



TAKING THE LEAD IN BETTER FIRE PROTECTION

TYPGODKÄNNANDEBEVIS 0706

MED BESLUT OM TILLVERKNINGSKONTROLL

SAKORD: BRANDSKYDD, brandisolering av stålkonstruktioner
BrandskyddsmålningBBR 1, 5, 6
BSAB LCS.5**BRANDSKYDDSFÄRG NULLIFIRE S707-60****Innehavare**NULLIFIRE Ltd, Torrington Avenue, CV4 9TJ Coventry, United Kingdom
Tel: +44 - 24 7685 5000, Fax: +44 - 24 7646 9547, Hemsida: www.nullifire.com.**Produkt**Brandskyddsfärg NULLIFIRE S707-60, för brandisolering av bärande stålkonstruktioner.
Brandmotstånd R30-R90, för olika färgtjocklekar samt vid 3 eller 4-sidig brandbelastning.
Dimensionering, utförande samt övriga förutsättningar framgår av tillhörande handlingar.**Avsedd användning**

Brandskyddsmålning av bärande stålkonstruktioner, inomhus.

Godkännande

Produkten godkänns med avseende på följande avsnitt i Boverkets Byggregler (BBR):

Byggprodukter med bestyrkta egenskaper	1:4
-Typgodkännande och tillverkningskontroll	5:221
Brandskydd, Brandtekniska klasser, Bärformåga R30 - R90*	6:21
Allmänt, Emissioner	6:21

* Brandskyddsbeläggningens brandmotstånd R30 -- R90 resp. skikt tjocklekar för olika tvärsnittsfaktorer samt övriga förutsättningar enligt tillhörande handlingar.

För avsedd användning uppfyller produkten följande krav i 2§ Lag om tekniska egenskapskrav på byggnadsverk m.m. (BVL):

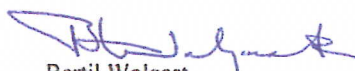
2. Säkerhet i händelse av brand
3. Hygien, hälsa och miljö

Giltighetstid

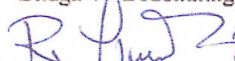
Beslutsdatum 2011 03 24. Dnr 470/10. Typgodkännandet gäller t o m 2016 03 24.

Detta typgodkännandebevis ersätter tidigare bevis med samma nummer, daterat 2006 03 24, Dnr 032/06.
Godkännandet förutsätter att innehavaren årligen rapporterar till Swedcert om utförd tillverkningskontroll.
Vid leverans till byggsplats skall produkten åtföljas av tillverkarförsäkran enligt BFS 2000:27, TYP 2.

SWEDCERT AB


Bertil Wolgast
VD

Bilaga 1	Tillhörande handlingar	2011 03 24
Bilaga 2	Produktmärkning	2011 03 24
Bilaga 3	Kontrollanvisningar	2011 03 24
Bilaga 4	Bedömningsunderlag	2011 03 24


Rozalia Gyarmati
Tekniskt ansvarig
**SWEDCERT**

1. NAMNET PÅ PRODUKTEN OCH FÖRETAGETProdukt: **NULLIFIRE S 707-60**

Leverantör/tillverkare: **Tremco AB**
 Adress: Box 102
 425 02 Hisings Kärra
 Telefon: 031/570010
 Fax: 031/572007
 Utfärdare: Tekn. Avd.

Kem/teknisk produktbenämning:
 Vattenburen brandskyddsfärg

2. SAMMANSÄTTNING/ÄMNE NAS KLASSIFICERING

Ämne:	CAS nr	EINECS	Halt %	Farosymbol	R-Fras
Nafta	64742-82-1	265-185-4	1-5	Xn	R 10 - 65
*	*	*	*	*	*

Riskfrasernas text är utskrivna under punkt 16

3. FARLIGA EGENSKAPER

Hälsorisker: Klassificeras ej som hälsofarlig produkt.
 Miljöfara: Produkten klassificeras ej som miljöfarlig.
 Brand: Ej brandfarlig.
 Fysikaliska/kemiska risker: --

4. FÖRSTA HJÄLPEN

Inandning: Vila, frisk luft och värme. Kontakta läkare om problem kvarstår.
 Hudkontakt: Torka av. Tvätta huden omedelbart med tvål och vatten. Sök läkare om problem kvarstår.
 Stänk i ögonen: Skölj omedelbart med mycket vatten i minst 15 minuter. Kontakta läkare om irritation kvarstår.
 Förtäring: Kontakta läkare.

5. ÅTGÄRDER VID BRAND

I brandsituation använd vattenspray/dimma, pulver, skum eller CO2.

6. ÅTGÄRDER VID SPILL/OAVSIKTLIGA UTSLÄPP

Personskydd: Se till att ventilationen är god. Se punkt 8.
 Miljöskydd: Förhindra om möjligt utsläpp till avloppssystem, vattendrag eller på mark.
 Saneringsmetod: Samla upp mekaniskt och lägg i stängd container. Se punkt 13.

7. HANTERING OCH LAGRING

Hantering: Se till att ventilationen är god. Vid hantering av produkten skall god arbetshygien alltid iaktas.
 Lagring: Förvaras kallt, torrt, i välventilerat lager och i stängd container. Skyddas mot frost och direkt solljus.

8. BEGRÄNSNING AV EXPONERING/PERSONLIGA SKYDDSÅTGÄRDER

Se till att ventilationen är god. Använd andningsskydd, skyddshandskar av plast eller gummi samt kemsikt utprovade skyddsglasögon, vid långvarig eller upprepad kontakt med produkten.

9. FYSIKALISKA OCH KEMISKA EGENSKAPER

Beskrivning: (Form, färg, lukt): Vit vätska med obetydlig lukt.

Kokpunkt:	100°C	Densitet:	1,4 kg/m ³
Flampunkt:	*°C	pH-värde:	9
Ångtryck:	*kPa	Lösl. i vatten:	God
Expl. Område:	--	Andra lösn.medel:	God
VOC:	--		

10. STABILITET OCH REAKTIVITET

Stabilitet: Stabil.

Farliga reaktioner: --

Farliga sönderdelningsprodukter: Vid brand kan bildas CO, CO₂, NO_x**11. TOXIKOLOGISK INFORMATION**

Allmänt: Ingen särskild hälsorisk angiven.

Inandning:

Hudkontakt:

Förtäring:

Övrig information:

12. EKOTOXIKOLOGISK INFORMATION

Produkten klassificeras ej som miljöfarlig efter rådande kriterier.

13. AVFALLSHANTERING

Deponering av avfall och överblivet material skall ske enligt lokala rekommendationer. Härdad produkt kan hanteras som normalt industriavfall.

14. TRANSPORTINFORMATION.

UN-nummer: ADR (väg tp): Klass: Förp.grupp:

IMDG(sjö tp) Klass: Förp.grupp:

DGR (flyg): Klass: Förp.grupp:

Ej transportklassad**15. GÄLLANDE BESTÄMMELSER**

Klassificering/märkning: Ej märkningspliktig

Symboler:

Risk- och skyddsfraser:

16. ÖVRIG INFORMATION**Riskfraser:** R10 – Brandfarligt.
 R65 – Farligt: Kan ge lungskador vid förtäring.