

VERSATILE, FAST-TRACK SYSTEM

SC900 intumescent coatings represent 'state-of-the-art' technology offering unparalleled versatility and performance in coating application and fire protection of structural steel. The technology has been engineered to provide effective solutions for the challenges associated with both off-site and on-site application, and provides a real alternative to existing thin film paints and board systems.

SC901 & SC902 offer all the performance benefits of thick film 90 and 120 minute water-based

intumescent coatings but with the unique benefit of rapid cure technology. Providing significant positive impact on the construction schedule, they set new standards in: tolerance of application conditions, resistance to storage/construction phase conditions and ease of repair.

Primer

To protect the steel against corrosion and prepare the surface, a primer coat is typically applied; however, SC900 coatings may be applied directly to correctly prepared steel and do not need

a primer coat. They will not cause any rusting or allow 'rust spots' or 'rust bloom' to show through the coating.

Basecoat

The SC901 or SC902 intumescent coating is applied to a measured thickness to provide the specified level of fire protection.

Top Seal

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

SPECIALIST EXPERTISE YOU CAN TRUST

Nullfire has pioneered the use of intumescent coatings for the decorative fire protection of structural steel for 30+ years. Totally focused on fire protection, the company has worked with the world's leading architects providing fire protection solutions for many of the landmark buildings of our time. Nullfire 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.

Construction Joints

Fire and smoke seals for joints, gaps and profiled metal sheeting

Service Penetrations

Lightweight, flexible barriers to maintain compartmentation

Call Nullfire Technical Services

Department for full details

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Visit www.nullfire.com to see the SC900 series video. Also available on YouTube

SC900 SERIES

FAST TRACK INTUMESCENT COATINGS FOR 90 & 120 MINUTE FIRE PROTECTION OF STRUCTURAL STEEL

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COMPREHENSIVE DESIGN AND CONTRACT SUPPORT

Fire protection is an important decision and we are on hand to help you make the best choices you can. Nullfire operates a unique team of fully trained technical service personnel who support architects, engineers and contractors through every stage of a project, from product selection and specification to installation and verification.

Help for you:

- Project specifications – bespoke and NBS clauses
- Fully trained specialist applicators
- Loading tables
- Technical data sheets
- Materials estimating programme
- Application and product training
- On-site or off-site inspection to ensure correct product application†

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.

SPECIALIST CONTRACTORS

Design and material specification are key drivers of the performance of any fire protection system; however, the quality and experience of the installer is an essential element in ensuring a successful project. All operatives installing Nullfire SC901 and SC902 receive individual application tuition from our technical service instructors. For a full list of specialist contractors please contact us.

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INTUMESCENT FIRE PROTECTION WITHOUT COMPROMISE

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Nullfire **SC900** series is an innovative patented technology offering ground breaking performance for the protection of internal, semi-exposed and external steelwork - providing benefits of off-site application on site.

SC900 SERIES

FAST TRACK INTUMESCENT COATINGS FOR 90 & 120 MINUTE FIRE PROTECTION OF STRUCTURAL STEEL



SC901 OPTIMISED FOR OFF-SITE APPLICATION

- Maximise factory productivity & throughput
- Build to maximum 2 hour protection in one coat
- Touch dry in 1 hour, transportable after 8 hours

Rapid Factory Throughput

One day application and rapid cure allows speedy throughput in the production facility. Fast cure and early durability facilitates quicker despatch of steelwork. Production facilities can be cleared rapidly to allow progress on further steel sections.

Maximise Productive Spraying Time

SC901 technology is more tolerant of ambient conditions than conventional thin film systems. It will still cure well in high humidity and in low temperatures, helping to maximise factory productivity.

Self-Priming

The coating can be applied directly onto SA2.5 blasted steel, without the need of a primer coat. Where epoxy primers are used, Nullfire Technical Approval should be sought.

Fast Track Application – in a Single Coat

The unique high build nature of SC901 allows the application of sufficient paint to provide **2 hour fire protection in a single coat**. No need for the build-up of multiple thin coats with delays for curing between individual layers.

Versatile Coating Finish

High speed application gives a lightly textured finish. A smooth finish, if required, can be achieved by adjusting the amount of thinner content.

Early Durability

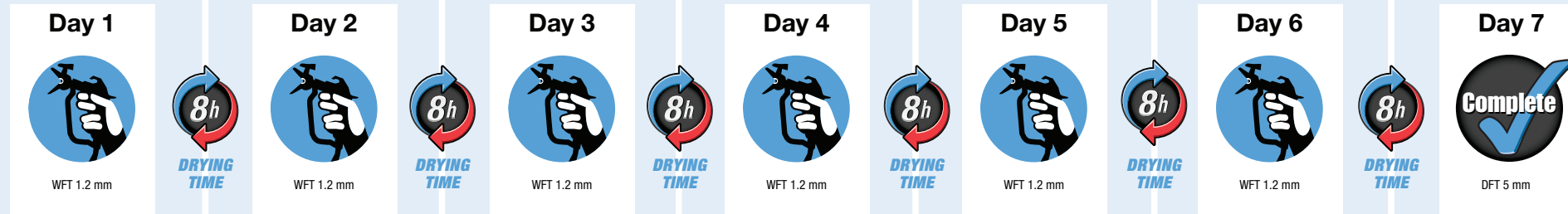
SC901 is touch dry within 1 hour and fully cured within 2 hours. With best in class early durability the coating is weather resistant in 1 hour. Good resistance to running and pooling water avoids damage to the freshly completed coating eliminating costly re-coating. Resists weathering for 6 months without top seal. The application of an approved top seal completes long term durability.

Speedy Repairs

Handling and moving steelwork can lead to damage in the production facility. Minor repairs are quickly effected. If required, the high build nature of the product allows the application of repair material in one layer – avoiding the build-up and cure of multiple layers of traditional thin film systems.

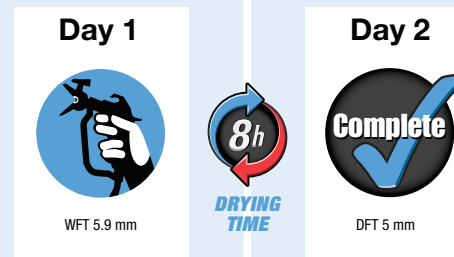
Traditional On-Site application method

120 MINUTE FULL FIRE PROTECTION IN 7 DAYS



SC902 application method

120 MINUTE FULL FIRE PROTECTION IN 24 HOURS



With **SC902** you **SAVE 60%+** on application and drying time, **ELIMINATE DELAYS** on site and **REDUCE COST** of application.

	SC901 Fast Track Off-site Intumescent Coating	SC902 Fast Track On-site Intumescent Coating
Properties	Area of Use	Internal, semi-exposed and external
	Steel Section	Universal sections and cellular beams
	Fire Performance	30 to 120 minutes
	Building Classification†	C1, C2 and C3 buildings
	Certification	BS476: Part 20/21; EN13381: Part 8; EN13823 (SBI); Cellular beams to EN13381: Part 9 and ASFP; Certifire Approved
	Durability*	ETAG 018 Part 2 Category X - External (with top seal) Category Y - Semi-exposed Category Z, Z1, Z2 - Internal
Technical	Touch Dry	Touch dry in 1 hour
	Cure Time	Cured in 2 hours
	Colour	Light Blue
Application Details	Application Method	Airless spray (Trowel may be used for repairs)
	Preparation	Recently blasted steel.
	WFT/Coat mm	6.5 mm
	DFT/Coat mm	5.5 mm
General	Pot Life	Greater than 15 minutes
	Container Size	25 kg or 200 litres Part A 45 kg Part B
	Specific Gravity	1.49 (mixed)
	Volume Solids	85% +/- 3%
	Flash Points	Approx. 250°C
	Approved top seals	Nullfire TS818 WPU Nullfire TS819 SPU

† For building classification outside of this range please refer to Nullfire's technical services department.
* Refer to Product Technical Data Sheet.

SC902 OPTIMISED FOR ON-SITE APPLICATION

- Provides rapid completion of on-site fire protection
- 90 and 120 minute fire protection in one coat
- Weather resistant in less than 1 hour, overnight cure
- Early fire protection offers peace of mind



Fast Track Your On-site Construction Programme

One day application and rapid cure allows speedy progress on site. Coated areas can be freed early to allow uncongested progress of following trades.

Maximise Spraying Days - Minimise Down Time

SC902 technology is more tolerant of ambient conditions than conventional thin film systems. It will still cure well in high humidity and in low temperatures.

Self-Priming

May be applied directly onto SA2.5 blasted steel without the need of a primer coat. Compatible with epoxy primers aged for 3 months+. Very tolerant of poor or damaged primer and light rusting.

Fast Track Application – in a Single Coat

The unique high build nature of SC902 allows the application of sufficient paint to provide **2 hour fire protection in a single coat**. With a wet film thickness up to 6.5 mm in a single application, coating times can be reduced by over 60%

Gain Time on Critical Details

SC902 can be applied directly over degreased galvanised bolts without the need of a primer.

Versatile Coating Finish

High speed application gives a lightly textured finish. A smooth finish, if required, can be achieved by adjusting the amount of thinner content.

Rapid Cure - Early Stage Durability

SC902 is touch dry within 1 hour and fully cured within 8 hours. With best in class construction phase durability, the coating is weather resistant in 1 hour. Good resistance to running and pooling water avoids damage to the freshly completed coating eliminating costly re-coating.

Resists weathering for 6 months without a top seal. The application of an approved top seal completes long term durability.

Rapid Repair

On-site damage is a reality of busy construction sites. With SC902 minor repairs are quickly effected. The high build nature of the product allows material application in one layer – avoiding the build-up and cure of multiple layers of traditional thin film systems.