

CI/SfB	(u4)	(K21)
CAW G12		
Uniclass JM61:L68116		
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# SC902

## Fast Track On-Site Intumescent Coating

### KEY BENEFITS SUMMARY

- 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 tolerant of light rusting to steel, up to 2 weeks post blasting
- High build potential with all ratings possible in one application
- Fire rating up to 120 minutes tested to BS476 and EN13381: Part 8

### PRODUCT INFORMATION

#### Description

Nullifire SC902 is a fast track on-site, low VOC, one coat, high build system, based on patented technology.

#### Usage / Purpose

It provides a fast cure effective structural fire performance, for steelwork, up to a 120 minute fire rating.

#### Finish

Can be applied to a smooth matt finish. A compatible top-seal can be applied if a decorative finish is required.

#### Colours

Part A: White  
 Part B: Translucent Black  
 Mixed: Off-white  
 Cured: Off-white

#### Packaging

Part A & Part B supplied as 25 kg kit (17.1 litres).

#### Environmental Considerations

Low VOC and no solvent entrapment or prolonged solvent odour.

#### Availability

Only available to Nullifire Specialist Contractors direct from Nullifire (see back of leaflet for address and telephone details).

#### USAGE GUIDELINES

##### Surface Preparation

- No primer required for C1 & C2 environments.
- Steelwork should be blast cleaned in dry atmospheric conditions using abrasive of suitable type and size, free from fines, moisture and oil. Continue blasting until finish complies with Swedish Standard SIS 05 59 00, preparation grade SA 2.5 or ISO 8501-1.
- Coat blasted steel within 2 weeks. All surfaces to be coated should be clean, dry and free from loose friable materials and any other contaminants likely to impair adhesion.
- Compatible with aged 2 pack epoxy primers, minimum 3 months, or with surface preparation or an adhesion test.
- The system is not suitable for use over single pack primers.
- For use over galvanised surfaces or other substrates please contact Nullifire Technical Services.

##### Application Conditions

- Ensure adequate through ventilation during application
- Application temperature range -5°C to +35°C, relative humidity <95% and a steel surface temperature at least 3°C above Dew Point temperature.

##### Application Equipment

Graco Mark V or equivalent.  
 RAC Switch Tip Orifice size 0.019 to 0.027 inches.

##### Application Advice

- Ensure all spray equipment is completely free from water prior to use, including spray gun, lines, pump and filter housing.
- Keep all product containers closed when not in use.

- Part B is moisture sensitive and should remain tightly closed before use.
- Always mechanically mix product in full pack volumes.
- Ensure the two components are thoroughly combined until a uniform colour is obtained and then mix for a further 2 minutes.
- The product should be spray applied at close proximity, approximately 600 mm from the surface, to avoid dusting and promote good surface coalescence.
- Use of additional solvent mixed into the material will assist in achieving a higher decorative finish. Please note this will affect the build characteristics.
- Use of a wet film gauge is essential.
- Ensure mixed material is used within 2 hours, ideally as soon after mixing as possible, at 15°C and 65% RH.
- Galvanised bolts, once degreased, can be coated with no further preparation.
- Damaged coatings can be trimmed to a feathered edge and the material troweled in one application.
- The applied product once cured can be easily finished to a high level, by sanding or tooling with either electrical or hand tools.
- Repairs can be carried out using SC900 Repair Kit.

##### Coverage Rates

Theoretical coverage of 1,750 g/m<sup>2</sup> based on an applied 1.00 mm dry film thickness.

##### Cleaning

Flushing of equipment should be carried out within 90 minutes of mixing the final kit using a non-flammable, low toxicity cleaning solution or a xylene based solvent flush. Do not use cleaning solutions containing alcohol or water.

##### Storage

Store in secure, dry warehouse conditions between -5°C and +35°C.

##### Shelf Life

9 months when stored as recommended in original unopened container.

## TOPSEAL REQUIREMENTS

ETAG018: Part 2 Condition	Description of Environment	Example	Approved Topseals
X: Exposed (also qualifies for Y & Z)	Exposure to rain Exposure to UV Uncontrolled humidity Uncontrolled temperature	Fully external steelwork Exposed perimeter steel Open construction site	Required TS818 WPU (DFT = 100 µm) TS819 SPU (DFT = 84 µm)
Y: Semi-exposed (also qualifies for Z)	Uncontrolled humidity Uncontrolled temperature No exposure to rain Limited exposure to UV	Car park Undercrofts Areas under a canopy	Not required (consider other factors)
Z1: Humid internal (also qualifies for Z2)	Humidity over 85% RH Temperature above 0°C	Plant rooms, Basements, Warehouse and production	Not required (consider other factors)
Z2: Dry internal	Humidity below 85% RH Temperature above 0°C	Office, Hospitals, Schools, Airports	Not required Decorative only

## TECHNICAL INFORMATION

Property	Result
Composition	A low VOC, high build formulation based on advanced hybrid technology
<b>Performance</b>	
"Prohesion" Cyclic Corrosion test to ASTM G85:2009 Annex A5 At 1000 hours Maximum extent of undercut corrosion 6.00 mm from scribe mark Note: The above test was carried out on a primer-less steel substrate	
<b>Properties</b> (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/litre
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)
Pot-life	Minimum 60 minutes

### Transportation

SC901 is compliant with the exemption for all shipping by road (ADR 2.2.3.1.5), as a Class 3 "flammable liquid" under the dangerous goods regulations.

### Disposal

Empty containers with minimal contamination from residual fully-cured material can be disposed of as non-hazardous waste. Any specific local authority regulations must be adhered to. In case of doubt, further advice should be sought from a specialist waste contractor.

### Specification

A Nullifire Representative will provide a specification for each project. Nullifire accepts no responsibility for defects

arising from failure to follow the specification.

### Health & Safety Precautions

Product Health and Safety Data Sheets must be read and understood before use.

### Technical Service

Nullifire has a team of experienced Technical Sales Representatives who provide assistance in the selection and specification of products. For more detailed information, service and advice, please call Customer Services on 02476 855000.

### Guarantee / Warranty

This information is offered in good faith but without guarantee or liability. In cases

of doubt, users should consult with relevant authority.

Information given herein is supplied for your guidance only and is based upon the results of controlled tests and experience obtained in the application of the product referred to by Nullifire.

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