

CI/SfB	Yu4	(K2)
CAW G12		
Uni-class JM61:L68116		

Product Information

Description

SC601 is a single pack acrylic thin film intumescent base coat for the protection of internal and semi exposed structural steelwork.

Usage / Purpose

SC601 is optimised to provide 60 minutes fire resistance to 'I' section beams and columns, hollow columns and beams, as well as cellular beams, concrete filled hollows and solid steel rods. 90 minute and limited 120 minute protection is also available.

Colour

Off-white

Packaging

25 kg drum

Availability

Available direct from Nullifire (see back of leaflet for address and telephone details).

Usage Guidelines

Specifications

An appropriate specification must be used for the protection of the full system in accordance with the environmental classification for the environment where the building is located. The environment during construction and transport should also be considered, if necessary, and the worst case used. Nullifire can assist with selecting an appropriate specification.

Environmental Resistance

The construction phase environmental conditions may vary from those during the final building classifications. The construction phase may include higher exposure to the environment than the final classification. Each product and specification should be considered for the resistance during this construction phase including the limitations and caveats. During the drying phase, the intumescent must be protected from all forms of water including rain. In all cases, prolonged water contact must be avoided, including condensation, standing water, heavy running water and fresh concrete run-off

(including alkaline moisture). Exposure may lead to detrimental damage to the coating system.

Protective Equipment

USE IN WELL VENTILATED CONDITIONS and ensure all recommended protective equipment is worn during handling & use of this product. For full recommendation, refer to safety data sheet.

Application Conditions

- Ensure adequate through ventilation during application
- Application temperature range 5°C to +35°C, relative humidity <85% and a steel surface temperature at least 3°C above the dew point.

Necessary Tools

Airless spray equipment is recommended and should match these guidelines:

Operating Pressure: Min 3100psi (218 kg/cm²)

Tip Size: 19 – 25 thou

Fan Angle: 20° – 40°

Hose Diameter: 10 mm (3/8") (internal diameter)

Hose Length: Max. 30 metres.

Inline filters should not normally be used

Substrate Preparation

SC601 should only be applied onto a clean, undamaged, dry, blasted Sa 2.5 and primed steel surface.

- For recommended primers and topcoats, please consult the Nullifire Approved Primer or Approved Topcoat list.
- Nullifire has carried out compatibility testing on a wide range of primers and topcoats. Call 01942 251400 for confirmation of compatibility with SC601.
- The primer must be applied in accordance with the manufacturer's instructions.

Pre-Treatment of Substrates

- All mill-scale must be removed and a blast profile of at least 50 microns and a cleanliness of Sa 2.5 must be achieved before application of recommended primer.

Nullifire
Smart Protection

SC601

Intumescent Base Coat

On-Site & Off-Site



optifire+



Key Benefits Summary

- Competitive loadings
- Compatible with various primers and topcoats
- Easy to apply
- SC601 is suitable for on-site and off-site application
- Optifire®+ unique traceability identifier

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APPROVAL N° CF5767



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Primer

- For recommended primers, please consult Nullifire.
- Nullifire has carried out compatibility testing on various primers, but have no control over primer consistency from other manufacturers.
- The primer system shall not exceed 150 microns DFT total, with an absolute maximum allowable in overlap areas only of 200 microns DFT.
- Primed steel surfaces that are visibly high in gloss must be abraded/sanded to a matt finish.
- The primer must be applied in accordance with the manufacturer's instructions.
- It is recommended as best practice that a small test patch or area be prepared with the intumescent before commencing the full intumescent coating application to ensure that there are no issues with compatibility, adhesion or drying, etc.

Topcoat

For recommended topcoats, please consult Nullifire.

- Nullifire has carried out compatibility testing on various topcoats, but have no control over topcoat consistency from other manufacturers.
- The type, DFT and number of layers of topcoat must be in accordance with the specification. Specifications will be driven by the Nullifire Specification Guidance or the appropriate product ETA.
- The topcoat must be applied in accordance with the manufacturer's instructions.
- It is recommended as best practice that a small test patch or area be prepared before commencing the full application to ensure that there are no issues with compatibility, adhesion or drying, etc.

Mixing and Thinning

Nullifire intumescent is supplied without the need to add thinners for application, and is not recommended. However, if necessary, xylene (FC150) may be added up to a maximum of 2%. Thinning may impact the ability of the coating to hold up at the recommended WFT. SC601 should be mechanically stirred prior to use until homogeneous.

Cleaning

Dried on paint may be removed using a paint scraper. Spray equipment must only be cleaned using xylene (FC150).

Health & Safety Precautions

Safety data sheet must be read and understood before use.
Flammable - keep away from open flames and other ignition sources.

Additional Information

Technical Service

Tremco CPG UK Limited 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 01942 251400.

Guarantee / Warranty

Tremco CPG UK Limited products are manufactured to rigid standards of quality. Any product which has been applied (a) in accordance with Tremco CPG UK Limited written instructions and (b) in any application recommended by Tremco CPG UK Limited, but which is proved to be defective, will be replaced free of charge.

No liability can be accepted for the information provided in this leaflet although it is published in good faith and believed to be correct.

Tremco CPG UK Limited reserves the right to alter product specifications without prior notice, in line with Company policy of continuous development and improvement.

Disclaimer

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Please note the information in this document is intended for guidance only, and it is the responsibility of the Buyer to determine the suitability of the product for its own particular use. Tremco CPG UK Limited has no control over the quality or condition of substrate, or the many factors that can affect the use and application of the product, and as such Tremco CPG UK Limited accept no liability for any loss, injury or damages resulting from such factors. Variations in application conditions, procedures and steelwork environments can cause unsatisfactory results, therefore always refer to the application instructions or Nullifire Technical Services before use for guidance.

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The English language version of this document shall prevail over any other translated version.



SC60I

Intumescent Base Coat

Nullifire
Smart Protection

Technical Data

Property	Result
Certification	Certifire CF5767
	BS476 Part 20/21
	Cellular Beams YB5
	EN13381-6 Concrete Filled Hollow Tubes
Building Classification	EN13881-10 Solid Steel Rods
	C1, C2, C3 and C4 environments only
Construction Phase	For full details, please consult Nullifire Specification Guidelines.
Specific Gravity	6 months with a topcoat once fully dried (see environmental resistance)
Volume Solids	1.36 ±0.02
VOC	72% ±3%
Recommended Thickness Per Coat	317 g/litre
	DFT: 720 microns- maximum
	WFT: 1000 microns- maximum
	Higher thickness's may be possible, but will impact the drying times. These thickness's are recommended for optimum film build and drying balance.
Consumption	916 g/m ² @ 500 µm DFT
Average Drying Times (at 20°C)	To Touch – 30 minutes
	To Re-coat – 4 hours
	To Handle – variable depending on conditions
	These figures are given as guidance only. Other factors such as air movement, temperature and coating thickness must be considered.
Service Temperature	+5°C to +35°C
Application Temperature	+5°C to +35°C - at temperatures above 35°C, thermoplasticity may be observed
Storage	Store in secure, dry warehouse conditions between +0°C and +35°C
Shelf Life	12 months when stored as recommended in original unopened container