

SÉLECTION & CARACTÉRISTIQUES

Type générique	Nullifire SC803 is an ultra low VOC, borate free, APEO free, water based, thin film intumescent coating for the protection of internal structural steelwork and concrete, optimised to 60 minutes fire protection.
Description	SC803 is optimised to provide 60 minutes fire resistance to 'I' section beams and columns, hollow columns, hollow beams, cellular beams, concrete filled hollow columns, solid steel tension rods and concrete members. Limited 90 minute protection is also available. SC803 can be used on steel, cast iron, galvanised steel and concrete.
Caractéristiques	<ul style="list-style-type: none"> • Ultra Low VOC. • Market leading loadings. • Compatible with a wide range of primers and topcoats. • Easy to apply, with excellent aesthetics. • Optifire+® unique traceability identifier. • CE ETA 20/1210. • Emissions dans l'air interieur A+. • AGBB. • DGNB Navigator - 52P9A3 • Fire protection of concrete - EN13381-3
Couleur	White
Finition	Matt
Primaire	<p>The primer system shall not exceed 150 microns DFT total, with an absolute maximum allowable in overlap areas only of 200 microns DFT.</p> <p>Primed steel surfaces that are visibly high in gloss must be abraded/sanded to a matt finish.</p> <p>The primer must be applied in accordance with the manufacturer's instructions.</p> <p>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.</p> <p>Contact Carboline Technical Service for a complete list of recommended primers.</p>
Epaisseur recommandée	<p>Dry Film Thickness (DFT): 690 microns - maximum</p> <p>Wet Film Thickness (WFT): 1000 microns - maximum</p> <p>Higher thickness's may be possible, however they will impact the drying times. The thickness's above are recommended for optimum film build and drying balance.</p> <p>For required thickness, consult Loading Tables.</p>
Extrait sec	69% ± 3%
Rendement théorique	1.38 kg/m ² based on an applied at 0.69mm dry film thickness (DFT).
Valeurs de COV	<0.5 g/l
Finitions	<p>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.</p> <p>The topcoat must be applied in accordance with the manufacturer's instructions.</p> <p>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.</p> <p>Contact Carboline Technical Service for a complete list of approved topcoats.</p>
Densité	1,38 ± 0,02 g/cm ³

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Environmental Resistance

C1, C2 and C3 environments only. For full details, please consult Nullfire Specification Guidelines. 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.

Construction phase: 6 months with topcoat once fully dried (see Environmental Resistance section)

Traceability & Product Identification

Nullfire is bringing unique identification technologies to the market, offering architects, specifiers, main contractors, and applicators guaranteed traceability of product on-site. Our traceability technologies are not visible to the naked eye, and do not affect performance or product aesthetics. SC803 features Optifire+, a unique pigment technology, visible only with a specific Nullfire detector ; Optifire+ offers lifetime identification, and remains traceable even after a fire.

SUPPORTS & PRÉPARATION DE SURFACE

Général

SC803 should only be used on substrates which have had all mill-scale and blasted to an average blast profile of 75 microns, with a minimum of 40 microns, and a cleanliness of Sa2.5 must be achieved before application of a recommended primer. All surfaces must be clean, dry and free from contamination before coating application.

MÉLANGE & DILUTION

Mélange

SC803 is supplied ready for use and must not be thinned but should be mechanically stirred prior to use until homogeneous. Avoid over-mixing, as this may break down the thixotropy impacting the ability of the coating to achieve the targeted WFT's.

Dilution

Do not thin.

EQUIPEMENT D'APPLICATION

Ci-dessous informations générales de l'équipement à utiliser. Les conditions sur site peuvent demander la modification de ces caractéristiques pour l'obtention du résultat souhaité.

Airless

Airless spray equipment is recommended and should match these guidelines: Operating Pressure: 2500 - 3000psi (175 - 210kg/cm²)

Buses

0.019" - 0.021"

Largeur de jet

20 - 40°.

Hose Length

Maximum 60 metres, in-line filters should not normally be used.

Diamètre Tuyaux (Produit)

10mm (3/8") internal diameter minimum.

PROCÉDURES D'APPLICATION

Général	<p>Nullifire SC803 is recommended for application and use on dry protected structural steel only. If the steel coating is allowed to get wet, it is likely to be damaged – blistering and wrinkling may occur.</p> <p>SC803 should only be applied when the air and steel temperatures are above 5°C. Relative humidity should be below 85%.</p> <p>Steel surface temperature should be a minimum of 3°C above the dew point.</p> <p>Ensure the substrate is dry and free from contact with rain or condensation during the application and drying of SC803.</p> <p>Refer to SC800 series Application Instructions for guidance, or consult Carboline Technical Service.</p>
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TEMPS DE SÉCHAGE

Temp. de surface	Sec au toucher	Sec pour être surcouché
20°C (68°F)	1 Heure	4 Heures

These figures are given as guidance only at 690 microns DFT. Other factors such as air movement, temperature and coating thickness must be considered.

NETTOYAGE & SÉCURITÉ

Nettoyage	<p>Fresh paint can be removed using water. Dried on paint may be removed using a paint scraper. Spray equipment must only be cleaned using water.</p> <p>Spray equipment must only be cleaned using water immediately after use.</p>
Sécurité	<p>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. Safety data sheet must be read and understood before use.</p>
Overspray	<p>All adjacent and finished surfaces shall be protected from damage and overspray.</p>

MAINTENANCE

Général	<p>Damaged areas should be abraded back to a sound surface. The surface should then be clean and dry before re-applying. Once repaired, the original specification should be reinstated. Refer to SC800 Series Application Instructions for guidance.</p>
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TEST / CERTIFICATION / RÉFÉRENCIEMENT

EN Standards	<p>EN13381-8 – Structural Steel ETA 20/1210 and CE marked EN13381-6 – Concrete Filled Hollows EN13381-9 – Cellular Beams EN13381-10 – Solid Steel Rods Australian standards AS4100 and AS1530 (for other certification requirements, contact Nullifire></p>
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CONDITIONNEMENT, MANUTENTION & STOCKAGE

Durée de vie	<p>9 months when stored as recommended and in original unopened container at 20°C.</p>
Stockage	<p>Store in secure, dry warehouse conditions between +5°C and +35°C.</p>

CONDITIONNEMENT, MANUTENTION & STOCKAGE

Conditionnement | 25kg drums & 6.9kg tins.

GARANTIE

Au meilleur de nos connaissances, les données techniques contenues dans le présent document sont véridiques et exactes à la date de leur publication et sont susceptibles d'être modifiées sans préavis. Les utilisateurs doivent contacter la société Carboline pour vérifier la conformité du produit avant de l'installer ou de passer commande. Aucune garantie de précision n'est expresse ou implicite. Nous garantissons que nos produits sont conformes au contrôle qualité de Carboline. Nous n'assumons aucune responsabilité pour la couverture, la performance ou les blessures liées à l'utilisation. La responsabilité, le cas échéant, est limitée au remplacement des produits. AUCUNE AUTRE GARANTIE D'AUCUNE SORTE N'EST DONNÉE PAR CARBOLINE, QU'ELLE SOIT EXPRESSE OU IMPLICITE, STATUTAIRE, EN VERTU DE LA LOI OU AUTRE, Y COMPRIS À CARACTÈRE COMMERCIAL ET D'ADÉQUATION À UNE UTILISATION SPÉCIFIQUE. Toutes les autres marques auxquelles il est fait référence ici sont la propriété de Carboline International Corporation, sauf indication contraire.