Application Conditions
- SC804 is recommended for application and use on dry protected structural steel only.
- If the basecoat is allowed to get wet, it is likely to be damaged – blistering and wrinkling may occur.
- SC804 should only be applied when the air and steel temperatures are above 5°C. Relative humidity should be below 80% for successful application. Steel surface temperature should be a minimum of 3°C above the dew point.
- Ensure the steel is dry and free from contact with rain or condensation during the application and drying of SC804.

Usage / Purpose
SC804 is optimised to provide 90 minutes fire resistance to ‘I’ section beams, columns, hollow columns and hollow beams as well as cellular beams. Limited 120 minute protection is also available.

Application Equipment
Airless spray equipment is recommended and should match these guidelines:
- Operating Pressure: 2500 - 3000 psi (175-210 kg/cm²)
- Tip Size: 17 – 21 thou
- Fan Angle: 20° – 40°
- Hose Diameter: 10 mm (3/8") (internal diameter)
- Hose Length: Max. 60 metres, in-line filters should not normally be used.

Mixing
SC804 is supplied ready for use and must not be thinned prior to use. Mechanical agitation is not necessary prior to use.

Key Benefits Summary
- Ultra Low VOC
- Competitive loadings
- Compatible with a wide range of primers and topcoats
- Excellent aesthetics
- Optifire®+ unique traceability identifier

Usage Guidelines
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.

Substrate Preparation & Priming
- SC804 should be applied onto a clean, undamaged and dry primed surface.
- For details of approved primers, please consult Nullifire's Approved Primer List.
- The primer must be applied in accordance with the manufacturer’s instructions.
**Technical Data**

<table>
<thead>
<tr>
<th>Property</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Composition</strong></td>
<td>An ultra low VOC, water-based formulation</td>
</tr>
<tr>
<td><strong>Certification</strong></td>
<td>UL CDXA listing ref. BS-RC-0022, BS476 Pt 20/21, ETAG 018 - up to Y exposure without topcoat (for other certification requirements, contact Nullifire)</td>
</tr>
<tr>
<td><strong>Building Classification</strong></td>
<td>SC804 is permitted without topseal in the construction phase only for 3 months maximum and care taken that no standing or pooling water is allowed to accumulate. For full details, please consult Nullifire Specification Guidelines.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Properties (Typical Values)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Specific Gravity</td>
<td>1.38 ±0.02</td>
</tr>
<tr>
<td>Volume Solids</td>
<td>69% ±3%</td>
</tr>
<tr>
<td>VOC</td>
<td>0.5 g/l</td>
</tr>
<tr>
<td>Theoretical Coverage</td>
<td>1,000 g/m² based on an applied 0.5 mm dry film thickness</td>
</tr>
<tr>
<td>Application Temperature</td>
<td>+5°C and +40°C</td>
</tr>
<tr>
<td>Storage</td>
<td>Store in secure, dry warehouse conditions between +5°C and +35°C</td>
</tr>
<tr>
<td>Shelf Life (at 20°C)</td>
<td>9 months when stored as recommended in original unopened container</td>
</tr>
</tbody>
</table>

**Top Seal Requirements**

Once DFT’s have been achieved as specified, a Nullifire top seal can be applied. Ensure the SC804 is completely dry before applying top seal. For approved topseals, please consult Nullifire’s Approved Topcoat List.

**Maintenance & Repair**

Damaged areas should be abraded back to a sound surface. The surface should then be clean and dry before re-applying. FC101 Filler may be used for repairing scratches and chips. Once repaired topseal should be re-applied. Refer to Nullifire Maintenance Instructions.

**Specification**

A Tremco CPG UK Limited Representative will provide a specification for each project. Tremco CPG UK Limited accepts no responsibility for defects arising from failure to follow the specification.

**Health & Safety Precautions**

Safety data sheet must be read and understood before use.

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**Drying Times**

<table>
<thead>
<tr>
<th>Temperature</th>
<th>WFT</th>
<th>10°C</th>
<th>20°C</th>
<th>30°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.2 mm</td>
<td>3 h</td>
<td>2 h</td>
<td>1 h</td>
<td></td>
</tr>
<tr>
<td>0.5 mm</td>
<td>4 h</td>
<td>3 h</td>
<td>2 h</td>
<td></td>
</tr>
<tr>
<td>1.0 mm</td>
<td>6 h</td>
<td>4 h</td>
<td>3 h</td>
<td></td>
</tr>
</tbody>
</table>

These are times for a typical mid-range humidity and good air flow. Higher humidity, poor airflow or overnight condensation will all lengthen these times. Recommended overcoat time is 16 hours. Do not overcoat if the surface is not touch dry. Check web-flange joints.

**Application Advice**

The following instructions are for on-site application only. For off-site application, refer to Nullifire. Ensure that:

- The primer is compatible with SC804 and has been applied correctly.
- The overcoating period for the primer has not been exceeded.
- The correct primer is used for galvanised steel.
- All damage to the primer has been repaired & re-primed.
- Site and weather conditions are within specification.
- SC804 has been stored correctly.
- Surface is clean, dry and free from contamination.
- Correct spray equipment is available, if appropriate.
- Application instructions have been read prior to commencement of work.
- Ensure different basecoats are not applied on the same section of steel.
- Equipment should be clean and free from contamination or dried material.
- Wet film gauges are available for use.

**Cleaning**

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.