Application Conditions
- Nullifire SC802 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.
- SC802 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 SC802.

Application Equipment
Airless spray equipment is recommended and should match these guidelines:
- Operating Pressure: 2500 - 3000psi (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
SC802 is supplied ready for use and must not be thinned but should be mechanically stirred prior to use.

Application
AIRLESS SPRAYING
- SC802 may be applied up to a maximum wet film thickness (WFT) of 1.0 mm in a single spray coat comprising of several quick passes. Achieving maximum loadings will depend on site conditions.
- The vast majority of 60 minute loadings can be applied in one coat.

BRUSH/ROLLER APPLICATION
- For brush application use a “laying on” technique to avoid heavy brush marking.
- Maximum wet film per coat when applied using a brush or roller is 0.6 mm. A short piled roller will produce a light textured finish.
- During application, measure the wet film thickness frequently with the WFT gauge provided to ensure the correct thickness is being applied.
To use the gauge, insert the teeth into the wet basecoat. The last tooth to be coated indicates the wet film thickness achieved.

In the event of over or under applications, adjustments to the loading rates of subsequent coats will be required.

### Drying Times

<table>
<thead>
<tr>
<th>WFT</th>
<th>Temperature</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. Do not overcoat if the surface is not touch dry. Check web-flange joints.

### Technical Data

<table>
<thead>
<tr>
<th>Property</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Composition</td>
<td>A very low VOC, water-based formulation</td>
</tr>
<tr>
<td>Certification</td>
<td>BS476 Part 21: 1987</td>
</tr>
<tr>
<td>Building Classification</td>
<td>C1 and C2 environments</td>
</tr>
<tr>
<td>Properties (Typical Values)</td>
<td></td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.38 ±0.02</td>
</tr>
<tr>
<td>Volume Solids</td>
<td>70% ±3%</td>
</tr>
<tr>
<td>VOC</td>
<td>6 g/l</td>
</tr>
<tr>
<td>Viscosity</td>
<td>150 - 200 Poise (Spindle 6 @20 rpm)</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>Storage</td>
<td>Store in secure, dry warehouse conditions between +5°C and +35°C</td>
</tr>
<tr>
<td>Shelf Life</td>
<td>6 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: TS134 (acrylic polymer), TS815 (modified acrylic) or TS816 (water-based acrylic), can be applied. Ensure the SC802 is completely dry before applying top seal.

### 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 illbruck Representative will provide a specification for each project. tremco illbruck 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.

### Guarantee / Warranty

tremco illbruck products are manufactured to rigid standards of quality. Any product which has been applied (a) in accordance with tremco illbruck written instructions and (b) in any application recommended by tremco illbruck, 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 illbruck Limited reserves the right to alter product specifications without prior notice, in line with Company policy of continuous development and improvement.

### 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 SC802 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.
- SC802 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 contaminants or dried material.
- Wet film gauges are available for use.

### Cleaning

Spray equipment can be cleaned using water only.