

## SELECTION & SPECIFICATION DATA

<b>Generic Type</b>	High solids chemically cured intumescent fire-proofing coating, based on patented hybrid technology.
<b>Description</b>	Nullifire SC902 is a fast track on or off-site, low VOC, one coat high build system capable of providing up to 2 hours protection in a single coat. <b>Applicator Note:</b> Nullifire SC902 may only be applied by trained and approved applicators; refer to Altex Coatings for approved applicator listings in your area.
<b>Features</b>	<ul style="list-style-type: none"> <li>• Fast cure, early weather resistance, shower proof within 1 hour</li> <li>• Achieves external durability with an approved top seal</li> <li>• Cures below 0°C and fully dry by the following day</li> <li>• Self-priming system tolerant of light rusting to steel, up to 2 weeks post blasting</li> <li>• High build capability with all ratings possible in one application</li> <li>• Fire rating up to 120 minutes tested to BS476 and EN13381: Part 8 and assessed to meet AS1530.4 and AS4100; ref BRANZ FAR 3997 &amp; FAR 4292 (RBSA)</li> <li>• Fast Track:             <ul style="list-style-type: none"> <li>• Conventional intumescent coating systems for 120 FRR that may take 7 days to complete can be completed in just 24 hours using Nullifire SC902</li> </ul> </li> </ul>
<b>Primers</b>	Not required for C1 environment; refer to Altex Technical Services or relevant Altex / Carboline Coating Specification for approved primer options.
<b>Colour</b>	Off white
<b>Finish</b>	Flat (with texture)
<b>Dry Film Thickness</b>	DFT as specified on relevant fireproofing loading schedule. 460-5000 microns per coat
<b>Solids Content</b>	By volume 85%
<b>Theoretical Coverage Rate</b>	0.85 m <sup>2</sup> / litre at 1000µm DFT (1.75 kg/m <sup>2</sup> at 1mm DFT) Allow for loss in mixing and application.
<b>VOC Values</b>	<b>As Supplied</b> : 137 g/L
<b>Topcoats</b>	Only approved polyurethane coatings – Refer to the relevant Coatings Specification from Altex Coatings
<b>Dry Temperature Resistance</b>	Ambient conditions. Prolonged exposure >40°C may be detrimental

## SUBSTRATES & SURFACE PREPARATION

<b>General</b>	All surfaces should be free of grease, oil, fats, incompatible paints, and other foreign matter.
<b>Steel</b>	<p><b>Optimum standard:</b> Abrasive blast to AS1627.4 Sa 2½. Prime as specified or apply SC902 direct to substrate.</p> <p><b>Minimum standard:</b> Light re-rusting up to 2 weeks after Sa 2½ preparation. Prime as specified or apply SC902 direct to substrate.</p>
<b>Galvanised Steel</b>	<p><b>Nuts &amp; Bolts:</b> Degrease and apply SC902 direct to substrate</p> <p><b>Structural Steel:</b> Refer to Altex Technical Services for preparation and priming recommendation.</p>

**SUBSTRATES & SURFACE PREPARATION**

**Previously Painted Surfaces** | Remove all existing coatings and prepare as for 'Steel' or 'Galvanised Steel' above.

**MIXING & THINNING**

**Mixing** | Thoroughly blend the Part A to a homogeneous consistency and stir the Part B to ensure all the pigmentation is fully incorporated.  
Combine the Part B into the Part A pail and power stir to a homogeneous mix (indicated when no colour pigmentation 'streaking' occurs in the mix).  
Only mix complete kits; do NOT mix partial kits.

**Thinning** | Use Carboline Thinner #10 sparingly to achieve a satisfactory spray pattern. Where lower DFTs and / or greater control of SC902 are required, thinning up 20% may be acceptable.

**Ratio** | 8.33:1 by weight (Part A : Part B)

As supplied in the kit:  
Part A: 22.3 kg  
Part B: 2.7 kg

**Pot Life** | 60 minutes at 20°C

**Induction Time** | None required after proper mixing

**APPLICATION EQUIPMENT GUIDELINES**

Listed below are general equipment guidelines for the application of this product. Job site conditions may require modifications to these guidelines to achieve the desired results.

**Spray Application (General)** | SC902 may be applied using either plural component or single leg airless spray. Refer to Altex Technical Services for plural equipment set-up

**Conventional Spray** | Not recommended

**Airless Spray (single leg)** | NOTE: A pail ram-plate or hopper gravity feed is highly recommended for maximum throughput.  
Pump: 30:1 (min.)  
Pump Input Filter: None  
Volume Output: 9.5 litres per minute (min.)  
Material Hose: 9mm (3/8") ID (min.)  
Output Pressure: 2000-2500 psi (13.8-17.2 MPa)  
Fluid Tip: 0.019" to 0.023" free-flow tip.  
20° - 40° Fan Angle  
Gun Filter: 60 mesh  
The following spray equipment from Graco, or equivalent has been found to be suitable.  
Gun – Heavy duty texture gun-Graco XHF or 207-300  
Pump\* – Graco Mk V 45:1  
\*Teflon packings are recommended and available from pump manufacturer.

**Brush & Roller (General)** | Brushing only suitable for repair and touch-up only.

**Brush** | Use a quality pure bristle brush with a good load capacity

**Roller** | Not recommended.

## APPLICATION CONDITIONS

Condition	Material	Surface	Ambient	Humidity
Optimum	20°C	20°	20°C	50%
Minimum	10°C	0°C	0°C	0%
Maximum	30°C	40°C	30°C	95%

This product simply requires the substrate temperature to be above the dew point. Ensure adequate through ventilation during application.

## CURING SCHEDULE

Surface Temp. & 50% RH	Dry to Self-Recoat	Dry to Topcoat with Other Finishes	Cure to Handling
0°C	8 hours	Overnight	Overnight
10°C	1 hour	Overnight	8 hours
16°C	30 min	8 hours	6 hours
24°C	15 min	6 hours	2 hours
32°C	15 min	4 hours	1 hour

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

## APPLICATION ADVICE

- Ensure all application equipment is free from water or alcohols prior to use.
- Part B is moisture sensitive and should remain tightly closed before use.
- Always mechanically mix product in full pack volumes.
- Ensure the components are thoroughly combined until a uniform colour is obtained.
- The product should be sprayed at close proximity to the work piece; approximately 600 mm from the surface to avoid dusting and promote good surface coalescence.
- Use of additional solvent mixed into material will assist in achieving a higher decorative finish. Note this will affect build characteristics.
- Use of a wet film gauge capable of reading up to 5000µm is recommended.
- Ensure mixed material is used within 2 hours at 15°C (sooner at higher temperatures).
- Keep spare 60 mesh gun hand-piece filters to hand and replace filters as required.
- Damaged coatings can be trimmed to a feathered edge and repair material troweled in one application.
- The applied product once cured can be easily finished to a high level by sanding or tooling with power or hand tools.

## CLEANUP & SAFETY

**Cleanup** | Use Thinner #10 or xylene. Do NOT use water or solvents containing alcohols.

**Safety** | For industrial use only: Read and follow all the caution statements on this Product Data Sheet, the product label, and the Safety Data Sheet (SDS) for health and safety information prior to use.

**Ventilation** | It is very important for the safety of the applicator and the proper performance of this product that good ventilation be provided to all portions of the enclosed area. It is equally important to bring into the enclosed area dry fresh air to remove all solvent vapours. Since solvent vapours are heavier than air, ventilation ducts should reach to the lowest portions of the enclosed areas as well as into any structural pockets. Ventilation should be provided throughout the cure period to ensure all the solvents are removed from the coating.

**Caution** | This product contains flammable solvents. Keep away from sparks and open flames. all electrical equipment and installations should be made and rounded in accordance with the National Electric Code. In areas where explosion hazards exist workers should be required to use non-ferrous tools and wear conductive and non-sparking shoes.

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## PACKAGING, HANDLING & STORAGE

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<b>Shelf Life</b>	12 months (Part A and B) Shelf Life: (actual stated shelf life) when kept at recommended storage conditions and in original unopened containers.
<b>Packaging</b>	25 kg (16.8 litres) pails
<b>Storage Temperature &amp; Humidity</b>	Store indoors and under cover in stable temperature conditions; avoid excessive heat. Ideally store at ≤20°C (10°C to 25°C)
<b>Flash Point (Setaflash)</b>	26°C
<b>Storage</b>	Store under cool, dry conditions.

<b>Distribution</b>	Distributed in New Zealand by:
	<b><u>ALTEX COATINGS LTD</u></b> Altex Coatings Ltd, 91-111 Oropi Road, Tauranga 3112 New Zealand Phone: +64 7 541 1221

<b>Manufacturer</b>	 Construction Products Group Europe
	Tremco CPG UK Limited Coupland Rd, Hindley Green Wigan WN2 4HT UK

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## WARRANTY

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Users should check they are referencing the latest product and safety data by checking for updates or amendments at [www.altexcoatings.com](http://www.altexcoatings.com).

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