

Selection & Specification Data

Generic Type	Nullifire® SC802 Waterborne Basecoat is a thin film intumescent coating for the fire protection of internal structural steelwork.
Description	<ul style="list-style-type: none"> SC802 is optimised for up to 60 FRR fire resistance. SC802 is designed for on-site application..
Features	<ul style="list-style-type: none"> Fully tested and certified in accordance with BS476: Part 21: 1987 <ul style="list-style-type: none"> Certifire CF5420 Waterborne technology Very low VOC: 16 gm / litre <ul style="list-style-type: none"> 84% below IEQ-3 Indoor Air Quality requirement of ≤ 100 g/lit. Halogen-free formulation Low odour, user friendly No topseal required for interior, dry non-decorative exposures Rapid dry to recoat / topcoat (refer to dry time and ventilation tables overleaf) Other Certification: <ul style="list-style-type: none"> Fire Propagation / Spread of Flame <ul style="list-style-type: none"> BS476: 6/7 Class 0 EN13823 (SBI) and IMO smoke / toxicity Certifire fully tested on cellular beams
Gloss	Flat
Colour	White
Primers	Wide range of compatible primers including Carbozinc® 859 EZ2 epoxy zinc-rich (surface must be free of zinc salts) and Altex High Build Rust Barrier modified alkyd primer. Do NOT use thermoplastic types such as chlorinated rubber or conventional acrylic etc..
Topcoats	As specified
Film Thickness	DFT as specified on relevant fireproofing loading schedule.. NOTE: Maximum 1000 microns WFT (Wet Film Thickness) per coat
Volume Solids	As supplied: 70% ±2%
Theoretical Coverage Rate	7.0 m ² / litre at 100µm DFT 1.4 m ² / litre at 500µm DFT
Mix Ratio	N/A – single component
VOC Values	16 gm / litre

Substrates & Surface Preparation

General	All surfaces should be clean, dry and free of surface contamination.
Steel	Abrasive Blast to AS1627.4 Class 2 or better, or minimum Power Tool Clean to AS 1627.2. Prime with compatible primer.
Galvanized Steel	Ensure all passivation coating is removed and abrade surface. Prime with compatible non-saponifiable primer.
Previously Painted Surfaces	Refer to Carboline / Altex Technical Services

Application Notes & Checklist

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, moisture or condensation during the application and drying of SC802.

Checklist:

The following instructions are for on-site application only. 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 galvanized steel.
- All damage to the primer has been repaired & re-primed.
- Site and weather conditions are within specification.
- SC802 is 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.

Application Equipment

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. **General Guidelines:**

Conventional Spray	Use only a high capacity remote pressure pot assembly.
Airless Spray	40:1 pump ratio 2500-3000 psi Minimum 9.5mm pressure hose 0.017" to 0.021" free-flow tip.
Brush & Roller (General)	Brushing only suitable for small areas or touch-up and may result in a ribbed finish. Use a short-nap roller.

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Drying & Self-Recoat Schedule

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Estimated **self-recoat** times (hours) at varying film thicknesses in still air and with positive air-flow (draught).

Drying of SC802 is dependent upon a number of factors including temperature (surface and ambient), air movement, humidity, method of application, and thickness of coating.

SC802

RH	WFT (µm)	10°C		20°C		30°C	
		Still Air	Air Flow	Still Air	Air Flow	Still Air	Air Flow
30%	200	4½	2¼	3	1½	2	1
	500	7	3½	5	2½	3	1½
	1000	9	4½	7	3½	4½	2½
50%	200	6	3	4	2	2¼	1
	500	8	4	6	3	4	2
	1000	12	6	8	4	6	3
70%	200	11½	6	8	4	4	2
	500	15	8	12	6	8	4
	1000	18	12	16	8	15	6

- Brushing or rolling adds about 20% to drying time (compared with spraying figures above)
- Drying times are doubled at 5°C or at over 75% relative humidity (RH)
- Final drying time **before top-sealing is minimum of 16 hours**
- These figures are based on constant conditions, fluctuations of any factor up or down will give variations to the drying time
- If overnight condensation causes wetting a further full drying period should be allowed

Mixing & Thinning

Mixing Power blend to a smooth homogeneous mix using a Jiffy Mixer or similar non-aerating mixer.

Mix Ratio N/A –single component product

Thinning Generally not recommended. Use clean fresh potable water if required

Cleanup & Safety

Cleanup Clean up with fresh water. Hardened deposits may be removed with Thinner #10

Precautions For industrial use only. See the Altex Coatings General Safety Data Sheet, product label and Material Safety Data Sheet (MSDS) for health and safety information prior to use. Use with adequate ventilation. May cause eye and skin irritation. Do not breathe vapour or spray. Wear suitable protective clothing such as gloves and eye and face protection.

Packaging, Handling & Storage

Pack Sizes 25 kg pails: 18.12 litres

Flash Point N/A: > 100°C

Storage Temperature & Humidity Store at ≥ 5°C and ≤ 25°C; 0 to 95% RH. Store indoors and under cover in temperate conditions. Do not expose to extreme heat; ie if stored outside in shipping containers keep product away from sun heated walls. Do not freeze.

Shelf Life* 9 months

***Shelf Life: Minimum shelf life if stored under cover in original sealed containers and under recommended storage conditions.**

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