

CI/SfB		Yu4	(K2)
CAW G12			
Uniclass JM61:L68116			

Product Information

Description

SC803 Intumescent Basecoat is a water-based, white, thin film intumescent coating for the protection of internal structural steelwork.

Usage / Purpose

SC803 is a water based intumescent coating used for internal structural steel to C1 and C2 environments. The coating can then be protected with a suitable top seal for decorative and durability purposes.

SC803 was developed to give optimised loadings for 60 minutes fire resistance.

Finish

SC803 can be applied to a smooth matt finish. A compatible top seal can be applied if a decorative finish is required. Refer to Permax.

Colour

White

Packaging

Supplied in 25 kg drums

Environmental Considerations

Ultra low VOC. Contains no substances of very high concern.

Availability

Only available direct from Permax Australia. Refer to contact details at the bottom of this brochure.

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

- SC803 should be applied onto a clean, undamaged and dry primed surface.
- Contact Permax for recommended primers
- SC803 should only be applied by painting contractors with commensurate experience in the application of intumescent coatings.

- The primer must be applied in accordance with the manufacturer's instructions.

Application Conditions

- SC803 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.
- SC803 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 SC803.

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

SC803 is supplied ready for use and must not be thinned but should be mechanically stirred prior to use.

Application

AIRLESS SPRAYING

- SC803 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 single 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.

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SC803

WATERBORNE INTUMESCENT
BASECOAT



Key Benefits Summary

- Ultra LowVOC
- Market leading loadings
- Compatible with a wide range of primers and top seals
- Easy to apply

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90 min FRL achievable with a range of steel sizes (refer to Permax)

CE
ETA 18/0002



SC803

Intumescent Basecoat

Nullifire
Smart Protection

- 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

WFT	Temperature		
	10°C	20°C	30°C
0.2 mm	3 h	2 h	1 h
0.5 mm	4 h	3 h	2 h
1.0 mm	6 h	4 h	3 h

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 over coat if the surface is not touch dry. Check web-flange joints.

Application Advice

The following instructions are for on-site application only. Ensure that:

- The primer is compatible with SC803 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.
- SC803 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.

Technical Data

Property	Result
Composition	An ultra low VOC, water-based formulation
Certification	EN13381-8, Assessed to AS4100-1998 and in accordance to AS1530.4-2014
Building Classification	C1 and C2 environments
Properties (Typical Values)	
Specific Gravity	1.38 ±0.02
Volume Solids	69% ±3%
VOC	0.5 g/l
Viscosity	300 - 350 Poise (Spindle 6 @20 rpm)
Theoretical Coverage	1,000 g/m ² based on an applied 0.5 mm dry film thickness
Application Temperature	+5°C and +40°C
Storage	Store in secure, dry warehouse conditions between +5°C and +35°C
Shelf Life	6 months when stored as recommended in original unopened container

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.

Top Seal Requirements

Once DFT's have been achieved as specified, an approved top seal can be applied. Refer to Permax for approved top seals. Ensure the SC803 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. Once repaired topseal should be re-applied. Refer to Nullifire Maintenance Instructions.

Specification

Refer to Permax to request a project specification. Permax 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.

Technical Service

Permax has a team of experienced engineers and technical services personnel who can provide assistance in the selection and specifications of Nullifire products. For more detailed information service and advice, please contact Permax on (07) 3865 5554.

Guarantee / Warranty

Tremco illbruck products are manufactured to rigid standards of quality. Any product which has been applied (a) in accordance with Permax written instructions and (b) in any application recommended by Permax, 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.