

CI/SfB	(u4)	(K21)
CAW G12		
Uniclass JM61:L68116		
August 2013		

# TS818 WPU

## 2 Pack, Waterborne, Polyurethane Topseal

### PRODUCT INFORMATION

#### Description

Nullifire TS818 is a waterborne, 2-pack polyurethane topseal based on aromatic hydrocarbon and glycol ester solvents.

#### Usage / Purpose

Nullifire TS818 has been designed primarily for use with Nullifire waterborne intumescent basecoats on internal or semi-exposed steelwork. It provides a tough, abrasion and chemically resistant finish with excellent colour fastness and an extended redecoration cycle. TS818 is also easily cleaned and does not support mould or fungal growth.

#### Colours

TS818 is available in white and a range of pastel shades.

#### Finish

Gloss

#### Packaging

5 litres

#### Availability

Direct from Nullifire (see back of leaflet for address and telephone details).

### USAGE GUIDELINES

#### Application Check List

Ensure that:

- The product specification is appropriate for your intended requirements.
- The basecoat is fully dried.
- The surface finish of the basecoat is suitable for overcoating.
- The correct dry film thickness (DFT) of basecoat has been applied before topsealing.

- The equipment is of correct specification.
- The site conditions and storage facilities are acceptable.
- You are fully conversant with the Application Instructions prior to use.

#### Surface Preparation

- Ensure the basecoat surface is sound, dry, clean and free from dirt and grease.

#### Site Conditions

- TS818 should be applied when the air and steel temperatures are above 5°C and below 25°C. The relative humidity should be below 80% with a level below 65% being ideal for drying. TS818 should not be applied if there is condensation on the basecoat surface.
- TS818 is touch dry within 2 hours and hard dry at 8 hours at 20°C and relative humidity below 65%. Where the humidity is high and/or the temperature is low, the drying times will be extended.
- TS818 can be recoated after a minimum period of 4 hours at 20°C. Recoating after 7 days at 20°C may require abrasion.

#### Application

- TS818 is supplied as base and activator in the correct proportions. All of the activator should be added to the base and mixed thoroughly for at least 5 minutes prior to use. **DO NOT MIX PART UNITS!**
- TS818 can be applied by brush, roller or airless spray. Best results and fastest application are achieved with airless spray.
- Please note that the product

contains isocyanate, so a suitable fresh air mask should be used when airless spraying.

#### Equipment Settings

Operating Pressure:  
1800 psi (127 kg/cm<sup>2</sup>/124 bar) - 2000 psi (141 kg/m<sup>2</sup>/138 bar)

Spray Tip:

13 – 15 thou (0.33 mm-0.38 mm)

Fan Angle: 40°

These recommendations presume ambient temperatures above 15°C. Below this temperature it is likely that increasing tip size and/or pressure will be required to satisfactorily atomise the product as a result of increased viscosity. Brush and roller application is only recommended for small, non-decorative areas particularly when strong or dark colours are used.

#### Coverage Rate

	No. of Coats	Loading ml/m <sup>2</sup>	WFT (mm)	DFT (mm)
Internal	1	100	0.100	0.036
Partial External	2	200	0.200	0.072

Coverage per coat is typically over 10 m<sup>2</sup>/l. A single full coat is generally sufficient; however, certain colours may need an additional coat to give good opacity.

#### Thickness Check During Application

- To ensure the correct thickness is applied in a uniform manner, a wet film gauge should be used.
- The recommended wet film thickness should be 0.1 mm per coat.



## TECHNICAL INFORMATION

Property	Result
Specific Gravity	1.22
Coverage Rate	Approx 10 m <sup>2</sup> /litre/coat
Volume Solids	Approx 36%
VOC	Maximum 35 g/l
Pot Life	4 hours @ 20°C
Flash Point	Non-flammable
Lead Content	Does not contain lead

- To use, insert the gauge teeth into the wet coating. The last tooth to be coated indicates the wet film thickness achieved.
- A number of readings should be taken to obtain an average thickness.

### Cleaning

- Clean spray equipment with clean water after use.
- Do not leave mixed material in spray lines during breaks and flush spray equipment when not in use.
- Do not attempt to use material that has exceeded its recommended potlife.
- Subject to the volume of spraying, it is good practice to periodically flush spray equipment.

### Maintenance

- A decorative finish is provided by TS818 and due to its purpose designed compatibility with the System S Basecoat, it is recommended that any maintenance is with the same product.
- Recoating with other generic sealer types may show incompatibility and could affect fire performance.
- For general redecoration the surface should be thoroughly washed with water.

- Damaged areas should be abraded back to a sound surface, preferably by wet abrasion.
- The surface should then be clean and dry before applying any further TS818.
- Typically, as with conventional coatings, inspection for redecoration is recommended every 3 - 5 years.

### Storage

Store in a safe place out of the reach of children between +5°C and +40°C.

### Shelf Life

12 months when stored as recommended in original unopened container.

### Specification

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

### Health & Safety Precautions

Safety Data Sheets must be read and understood before use.

### Technical Service

Nullifire has a team of experienced Technical Sales Representatives who provide assistance in the selection and specification of products. For more detailed information, service and advice, please call Customer Services on 02476 855000.

### Guarantee / Warranty

This information is offered in good faith but without guarantee or liability. In cases of doubt, users should consult with relevant authority. Information given herein is supplied for your guidance only and is based upon the results of controlled tests and experience obtained in the application of the product referred to by Nullifire. As the supplier only, Nullifire has no control over the method or conditions of application of the product and consequently no warranties expressed or implied are intended to be given as to the coverage or performance of the products mentioned or referred to herein and no liability will be excepted for any loss, damage or physical injury resulting from the use or application of the information, data or products mentioned or referred to herein.