

# Nullifire TS818WPU–2 Pack Waterborne Topseal

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## 1. PRODUCT DESCRIPTION

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TS818WPU is a waterborne, 2-pack polyurethane decorative topseal primarily designed for use with Nullifire waterborne intumescent basecoats on internal or semi-exposed steelwork. It provides a tough, chemically resistant, colour fast, anti-graffiti finish with an extended redecoration cycle. TS818WPU is also easily cleaned and does not support mould or fungal growth.

## 2. APPLICATION CHECK LIST

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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.

## 3. SURFACE PREPARATION

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Ensure the basecoat surface is sound, dry, clean and free from dirt and grease. If necessary rub down with wet and dry abrasive paper and then wash down with clean water and allow to dry before applying topseal.

## 4. SITE CONDITIONS DURING APPLICATION

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TS818WPU 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.

The product is touch dry within 2 - 4 hours and hard dry at 4 hours after application at below 65% relative humidity. Where the humidity is high and/or the temperature is low, the drying times will be extended.

## 5. PRODUCT COVERAGE RATE

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	No. of Coats	Loading ml/m <sup>2</sup>	WFT(mm)	DFT (mm)
Internal	1	139	0.139	0.050
Partial External	2	278	0.278	0.100

Coverage per coat is typically over 7.2m<sup>2</sup> per litre. A single full coat is generally sufficient, however certain colours may need an additional coat to give good colour opacity.

## 6. APPLICATION

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TS818WPU 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!** Do not thin the product. TS818WPU can be applied by brush, roller or spray with airless spray being the recommended method.

**Operating Pressure:** 1800psi (127kg/cm<sup>2</sup>/124bar) - 2000 psi (141kg/m<sup>2</sup>/138bar)  
**Spray Tip:** 13 – 15 thou (0.33mm-0.38mm)  
**Fan Angle:** 40°

These recommendations presume ambient temperatures above 15°C. Below this temperature it is likely that

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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.

## 7. THICKNESS CHECK DURING APPLICATION

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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 0.14mm per coat.

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.

## 8. CLEANING OF EQUIPMENT

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Clean spray equipment with clean water after use.

## 9. MAINTENANCE

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A decorative finish is provided by TS818WPU Topseal 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 TS818WPU Topseal. Typically as with conventional coatings, inspection for redecoration is recommended every 3 - 5 years.

## 10. TECHNICAL DATA

<b>Specific Gravity:</b>	1.1 to 1.3 g/cm <sup>3</sup>	<b>Colour Range:</b>	White & Pastel Shades
<b>Coverage Rate:</b>	Approx 7.2m <sup>2</sup> /litre/coat	<b>Finish:</b>	Gloss
<b>Volume Solids:</b>	Approx 36%	<b>Flash Point:</b>	Not applicable
<b>VOC:</b>	25g/litre	<b>Lead Content:</b>	No added lead
<b>Pot Life:</b>	4 hours @ 20°C		

## 11. STORAGE

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TS818WPU Topseal must be stored in sealed containers at temperatures between 5°C and 40°C. Shelf life is 12 months in unopened containers.

## 12. TO ORDER

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In the U.K., TS818WPU Topseal can be ordered directly from Nullifire, Coventry on +44 (0) 24 7685 5000.

In other countries, TS818WPU Topseal can be purchased through a network of Distributors, details of which can be obtained from Nullifire or from our Web site on <http://www.nullifire.com>.

TS818WPU Topseal can be supplied in 5 litre kits in a limited range of BS4800 and RAL pastel shades only. Our standard White is available in 5 and 20 litre kits.

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## 13. TECHNICAL ASSISTANCE

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Further assistance can be obtained by calling the Nullifire Technical Hotline on +44 (0)2476 855000 or by e-mail at [protect@nullifire.com](mailto:protect@nullifire.com). Contract Support is available on request.

Nullifire also run a training school in the U.K. for applicators. Full information can be obtained from Nullifire Ltd on the above telephone no.