

Nullifire S605 - Off-Site Basecoat

May 2007 – UK - S605 – OFFSITE - APP
Revision 1

Page 1 of 2

1. PRODUCT DESCRIPTION

Fast-drying, solvent-based Intumescent Coating for the protection of structural steel: Ideally suited to shop application. S605 is fully tested to BS 476:Part 21: 1987, for up to 2 hours fire protection.

2. APPLICATION CHECK LIST

Ensure that:

- Primer is compatible with S605, and has been applied correctly.
- The overcoating period for the primer has not been exceeded.
- Any damage to the primer has been repaired.
- Site and weather conditions are within specification.
- S605 is stored correctly.
- Surface is clean, dry and free from contamination.

3. GENERAL PRODUCT & STORAGE INFORMATION

| | |
|-----------------|-------------------------------|
| Colour: | White |
| Dry Appearance: | Smooth matt finish |
| Drum Size: | 25kg – 200kg |
| Shelf Life: | 6 months in sealed containers |
| Storage Temp: | 0°C to 35°C |
| Flash Point: | 3 °C |

4. PRODUCT SPECIFICATION

| | |
|-----------------------|---------------------------------|
| Specific Gravity: | 1.39 ± 0.02 |
| Volume Solids: | 68% ± 2% |
| VOC: | 320 g/litre |
| Theoretical Coverage: | 927g/m ² @ 0.5mm DFT |

Note: The volume solids content of this material has been measured in accordance with the method laid down in ISO 3233: 1998.

5. SURFACE PREPARATION

The surface of the steel should be abrasively cleaned to BS 7079:Part A1: 1989 Sa2½ before painting. Coating of the surface should take place before oxidation occurs. If oxidation has taken place then the surface must be re-cleaned.

S605 should always be applied to a dry, uncontaminated and undamaged surface.

Nullifire recommend that S605 is always applied to a compatible primer.

Nullifire have carried out compatibility testing with S605 on a wide range of primers.

For further details of compatible primers and preparation requirements please refer to Nullifire's Technical Department on Tel: 024 7685 5000.

Nullifire S605 - Off-Site Basecoat

May 2007 – UK - S605 – OFFSITE - APP
Revision 1

Page 2 of 2

6. APPLICATION

Airless Spray

Operating Pressure: Ideally minimum 3500 psi (250 Kg/m²)
Tip Size: 19 – 27 thou (0.48 – 0.68mm)
Fan Angle: 20^o - 40^o
Hose Diameter: 10mm
Hose Length: Max 60 metres
Maximum Loading: 1.4-mm wft.

Automated Spray System:

Trials should be carried out before production run to ensure correct set up.

Application Conditions

Humidity: Below 80%. If humidity is greater than 80% then care should be taken to avoid condensation forming on the steel.
Air Temperature: 0°C to 35°C
Surface Temperature: Minimum 2°C above dew point.

Note: Rain may cause patterning on the surface if the material is not through dry. Heavy rain, running or pooling water can damage recently applied coating (4-6 hours) which should be protected if this is a potential risk.

Drying times: Typical air drying times at 20°C, 0.6mm dft
Touch dry: 20 – 30 minutes
Second coat: 2 – 4 hours
To handle: 4 – 6 hours

Note: The above figures are given as a guide only. Drying times will vary depending on application method, temperature, humidity, air flow and film thickness.

Topseals: Nullifire recommend that after application S605 should be protected from weather, particularly pooling water. Where this is not practical, a compatible topseal, TS615, should be used to protect the basecoat.

TS615 is available in BS and RAL colour ranges, including metallics, in a variety of gloss levels. Refer to Nullifire's Technical Department Tel: 024 7685 5000.

7. MAINTENANCE

Damaged areas of material can be repaired on-site or off-site using Nullifire's System S Filler. Refer to data sheet Ref: SFILLER-APP date:26/10/01 for details.

8. HEALTH & SAFETY

Please refer to H & S Data Sheet Ref: S605-MSDS date: August 2004.

Nullifire Limited

Torrington Avenue, Coventry CV4 9TJ, United Kingdom
Telephone + 44 (0)24 7685 5000 Facsimile + 44 (0)24 7646 9547
e-mail protect@nullifire.com website www.nullifire.com



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 Ltd. As the supplier only, Nullifire Ltd 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.