

Nullifire S606 - Off-Site Basecoat

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Revision 1

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1. PRODUCT DESCRIPTION

Fast-drying, solvent-based Intumescent Coating for the protection of structural steel: Ideally suited to shop application. S606 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 S606, 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.
- S606 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.

S606 should always be applied to a dry, uncontaminated and undamaged surface.

Nullifire recommend that S606 is always applied to a compatible primer.

Nullifire have carried out compatibility testing with S606 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.

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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 S606 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: S606-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



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