

Nullifire S624 – Water Based Metal Primer

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1. PRODUCT DESCRIPTION

System S624 Water Based Metal Primer is a single pack low odour primer which can provide temporary corrosion protection to structural steelwork in a single coat application. It can also be used as a primer for difficult substrates such as aged two pack epoxy coatings. The primer is specifically designed for use with all Nullifire Intumescent Basecoats, It also provides the possibility of an all water based system in combination with S707-60 or S707120 basecoats and TS816WAC or TS818WPU topseals.

2. APPLICATION CHECK LIST

Ensure that:

- Surface preparation has been carried out correctly.
- The product has been stored under correct conditions.
- Correct spray equipment is available.
- The site conditions are within specification.
- You are fully conversant with the application instructions prior to commencing work.

3. SURFACE PREPARATION

Steel and iron surfaces should be degreased and blast cleaned until the finish complies to BS 7079 Part A1, preparation grade SA2½ with an approximate profile of 75 microns.

If hand cleaning is only possible then degrease surface and wire brush to grade St2.

4. SITE CONDITIONS DURING APPLICATION

S624 Water Based Metal Primer should be applied when the air temperature is between 5°C and 35°C. Steel surfaces should be dry and +2°C above dew point. If the relative humidity exceeds 80% care must be taken to avoid condensation forming during application.

5. APPLICATION METHODS

This should be carried out within 4 hours of surface preparation. If this time is exceeded, further preparation may be required.

S624 Water Based Metal Primer is supplied ready for use and should not normally be diluted but should be thoroughly stirred prior to use. It can be applied by brush, roller or spray.

Airless spray equipment is recommended and should match these guidelines:

Operating Pressure: 1800psi (127kg/m²/124bar) – 2200psi (155kg/m²/152bar)
Tip size: 13 – 15 thou (0.33 – 0.38mm)

6. THICKNESS REQUIREMENTS

S624 Water Based Metal Primer should be applied to a dry film thickness of 0.04mm (40 microns)

The dry film thickness should be checked prior to overcoating with Nullifire Intumescent Basecoat. This should be done with a suitable DFT gauge such as Elcometer 211 permanent magnetic type (banana gauge) or an electromagnetic type gauge.

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7. COVERAGE RATES

40 microns DFT is obtained from a wet application rate of 10m²/litre.

8. DRYING TIME

Touch Dry: 2 hours at 20°C
Hard Dry: 4-6 hours at 20°C
Overcoating (minimum): 16 hours
Overcoating (maximum): Unlimited

Drying time will be extended at low temperature and high humidity.

9. TECHNICAL DATA

Specific Gravity:	1.21	Flash Point:	Non Flammable
Volume Solids:	40%	VOC Content:	36gms/litre
Colour:	Red Oxide		

10. STORAGE

S624 Water Based Metal Primer should be protected from frost and stored at temperatures between 5°C and 35°C

11. TO ORDER

In the U.K., S624 Water Based Metal Primer can be ordered directly from Nullifire, Coventry on +44 (0) 24 76855000.

In other countries, S624 High Build Primer 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>.

12. TECHNICAL ASSISTANCE

Further assistance can be obtained by calling the Nullifire Technical Hotline on +44 (0)2476 855000 or by e-mail to 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 at the above telephone no.

13. HEALTH AND SAFETY

A separate Material Safety Data Sheet is available.