



# Protective & Marine Coatings

# FIRETEX<sup>®</sup> FX4002 SOLVENT BASED INTUMESCENT

Revised 03/2016 Issue 5

## PRODUCT INFORMATION

### PRODUCT DESCRIPTION

A single pack thin film intumescent coating

### RECOMMENDED USE

FIRETEX FX4002 is designed for site application by airless spray, to provide fire resistance for up to 90 minutes on structural steel.

### RECOMMENDED APPLICATION METHODS

Airless Spray

Recommended Thinner: No 2

### PRODUCT CHARACTERISTICS

Flash Point: 2°C

% Solids by Volume: 70 ± 4% (ASTM-D2697-03)

Colour Availability: White

#### VOC

377 gms/litre determined practically in accordance with UK Regulations PG6/23

388 gms/litre calculated from formulation to satisfy EC Solvent Emissions Directive

296 gms/kilo content by weight from formulation, to satisfy EC Solvent Emissions Directive

### TYPICAL THICKNESS

See separate sheet of FX4002 loading requirements

### PRACTICAL APPLICATION RATES - MICRONS PER COAT

#### Airless Spray

Dry	1400
Wet	2000

### AVERAGE DRYING TIMES

	@ 15°C	@ 23°C
To touch:	30 minutes	20 minutes
To recoat:	4 hours	4 hours

To handle: This will depend on the total thickness of FIRETEX FX4002 to be applied.

*These figures are given as a guide only. Factors such as air movement and humidity must also be considered.*

### RECOMMENDED PRIMERS

Several primers have been approved for use under FIRETEX FX4002. Please consult Sherwin-Williams for detailed information.

### RECOMMENDED TOPCOATS

For certain dry, internal situations where the final colour / appearance is not critical, then FIRETEX FX4002 may remain un-topcoated.

For other internal environments where a topcoat is required then FIRETEX M71V2 or Sher-Cryl M770 should be used.

In all instances for subsequent re-decoration, use FIRETEX M71V2 or Sher-Cryl M770 as appropriate.

### PACKAGE

A single component material

Pack Size: 20 litre units

Weight: 1.31 kg/litre

Shelf Life: 'Use By' date where specified.



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### ***SURFACE PREPARATION***

FIRETEX FX4002 is designed for use over a suitably prepared and primed substrate.

Ensure surfaces to be coated are clean, dry and free from all surface contamination.

Under certain circumstances it may be possible to apply FIRETEX FX4002 directly to steel blast cleaned to a minimum standard of Sa2½ BS EN ISO 8501-1:2007, surface profile in the range 50-100 microns. Consult Sherwin-Williams for further details.

### ***APPLICATION EQUIPMENT***

#### **Airless Spray**

Nozzle size:	21 – 27 thou (0.53 – 0.69mm) depending on application requirements
Fan Angle	30°
Operating Pressure:	210kg/cm <sup>2</sup> (3000 psi)

The details of airless spray tip orifice size, fan angle and pressure are given as a guide. Smaller fan angles should be used where the size of the work to be sprayed makes this appropriate. It may be found that slight variation in tip orifice size or pressure will provide optimum atomisation in some circumstances. In general, the operating pressure should be the lowest possible consistent with satisfactory atomisation.

Recommended Equipment : Use a 56:1 or 68:1 Graco King or equivalent. Use 3/8" (9.53mm) ID fluid lines where lengths in excess of 3 metres are required. In-line gun or pump filters should not normally be used. Maximum length of fluid line should not exceed 60 metres.

For use on narrow web sections, the smallest tip recommended is a 21 thou (0.53mm ) with a 60 mesh pump filter.

### ***APPLICATION CONDITIONS AND OVERCOATING***

This material should preferably be applied at temperatures in excess of 5°C. In conditions of high relative humidity, ie 80-85% good ventilation conditions are essential. Substrate temperature shall be at least 3°C above the dew point and always above 0°C.

**The material must be protected from moisture during the drying period. Moisture ingress prior to drying may affect the integrity and fire protective properties of the coating.**

**No more than 2 coats by airless spray should be applied within any 24 hour period.**

**If the maximum recommended thickness per coat is exceeded or high film thicknesses are overcoated prematurely, cracking may occur.**

**The substrate temperature is at least 3°C above the dew point at the time of application and during the drying period.**

### ***HEALTH AND SAFETY***

Consult Product Health and Safety Data Sheet for information on safe storage, handling and application of this product.

### ***WARRANTY***

Any person or company using the product without first making further enquiries as to the suitability of the product for the intended purpose does so at their own risk, and Sherwin-Williams can accept no liability for the performance of the product, or for any loss or damage arising out of such use.

The information detailed in this Data Sheet is liable to modification from time to time in the light of experience and of normal product development, and before using, customers are advised to check with Sherwin-Williams, quoting the reference number, to ensure that they possess the latest issue.