



# New Guard Coatings Group

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This information is not exhaustive and it is the user's responsibility to ensure that this data sheet is the most current by contacting their local New Guard Coatings Group branch prior to using the coating/product.

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# Protective & Marine Coatings

# FIRETEX™ FX9500 EPOXY INTUMESCENT

Revised 12/2021 Issue 8

## PRODUCT INFORMATION

### PRODUCT DESCRIPTION

#### FIRETEX FX9500 EPOXY INTUMESCENT COATING

**Material Type:**

Scrim free epoxy intumescent coating suitable for cellulosic fire protection

### RECOMMENDED USE

FIRETEX FX9500 is designed for application by airless spray to provide fire resistance for periods of up to 120 minutes on structural steel.

An exterior durable intumescent, which can be applied directly onto blast cleaned steel.

Suitable for application in-shop and on site, provided the conditions listed below are adhered to.

For use in internal and external environments without topcoat. (C5 according to ISO12944-2:1998).

### ENDORSEMENTS

Tested to BS476-20/21

Certifire Approved - Certificate CF5441

Tested and Assessed for Cellular beam protection in accordance with the ASFP Yellow Book 5th Edition, Certified to ASTM E119, UL263, ULC S101.

Intertek: SWC/IF 180-01/240-01/240-02.

UL: N647, Y645, Y647 ASTM E48.

### RECOMMENDED APPLICATION METHODS

Airless Spray ( see notes overleaf )

Trowel ( small areas and touch up only )

**Recommended Thinner:** Cleanser Thinner No 2

### PRODUCT CHARACTERISTICS

**Flash Point: Base :** 30°C **Additive :** 30°C

**% Solids by Volume:** 95 ± 4% (ASTM-D2697-91)

**Pot Life:** 35 minutes at 15°C 30 minutes at 23°C

**Colour Availability:** Pale Blue (white base plus blue additive )

**VOC**

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

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

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

### RECOMMENDED THICKNESS

See separate sheet of FX9500 loading requirements.

### PRACTICAL APPLICATION RATES-MICRONS PER COAT

#### Airless Spray

**Dry** 2000\*

**Wet** 2100

\* Maximum sag tolerance typically 3000µm dry by airless spray.

### AVERAGE DRYING TIMES

	@ 10°C	@ 15°C	@ 23°C
<b>To touch:</b>	24 hours	12 hours	8 hours
<b>To recoat:</b>	24 hours	12 hours	8 hours
<b>To handle:</b>	60 hours	36 hours	24 hours

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

### RECOMMENDED PRIMERS

Macropoxy L574 Blast Primer

Macropoxy C425V2 Zinc Phosphate Primer

Macropoxy C400 Range

Macropoxy M111 Wet Blast Primer

FIRETEX C69 Fast-Track Blast Primer

### RECOMMENDED TOPCOATS

Where a high degree of gloss and colour retention is required overcoat with Acrolon C137V2, Acrolon 7300, Acrolon 1850 within 7 days at a minimum dft of 50 microns or in the case of Acrolon C750V2 overcoat within 4 days. These overcoating times refer to achievement of optimum adhesion at 23°C and will vary with temperature.

FIRETEX FX9500 is indefinitely overcoatable with itself.

### PACKAGE

A two component material supplied in separate containers to be mixed prior to use

**Pack Size:** 15 litre units when mixed

**Mixing Ratio:** 1 parts base to 1 part additive by volume

**Weight:** 1.363 kg/litre

**Shelf Life:** 24 months from date of manufacture or 'Use By' date where specified.



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### **SURFACE PREPARATION**

Blast clean to Sa2½ BS EN ISO 8501-1:2007. Average surface profile in the range 50-75 microns. Ensure surfaces to be coated are clean, dry and free from all surface contamination.

### **APPLICATION EQUIPMENT**

#### **Airless Spray**

Nozzle Size	:	0.64-0.84mm (21-25 thou)
Fan Angle	:	30°
Operating Pressure	:	250kg/cm <sup>2</sup> (3600 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 60:1 Graco Xtreme or equivalent. Use 3/8" ID fluid lines where lengths in excess of 3 meters are required. Maximum length of fluid line is 30 metres.

All equipment and lines must be flushed out using Cleanser/Thinner No. 9

#### **Trowel**

The material may be applied by trowel, but this is only recommended for small areas and touch up purposes. Consult Sherwin-Williams for further details of recommended application equipment and methods.

### **APPLICATION CONDITIONS AND OVERCOATING**

This material is intended for use in application facilities where atmospheric conditions can be controlled. It is possible to use FIRETEX FX9500 for site application, but proper attention must be paid to the temperature and moisture recommendations listed in this section.

Substrate temperature shall be at least 3°C above the dew point and always above 0°C.

**Relative humidity shall not exceed 85%.**

**In conditions of high relative humidity i.e. 80-85%, good ventilation conditions are essential.**

**After application, unless a sealer coat is applied prior to exposure, the coating must be protected from the weather until the material reaches a shore D hardness of 30 in order to become exterior durable. Applications below 15°C may result in insufficient curing and reduced weather resistance and performance. See application conditions and overcoating.**

At application temperatures below 15°C, drying and curing times will be significantly extended. This material must be protected from moisture/water during the application and drying process. Failure to do so will adversely affect the physical properties.

In order to achieve optimum water and chemical resistance, temperature needs to be maintained above 15°C during curing.

If it is desired to overcoat outside the times stated on the data sheet, please seek advice of Sherwin-Williams.

### **ADDITIONAL NOTES**

Drying times, curing times and pot life should be considered as a guide only.

The curing reaction of epoxies commences immediately the two components are mixed, and since the reaction is dependent on temperature, the curing time and pot life will be approximately halved by a 10°C increase in temperature and doubled by a 10°C decrease in temperature.

In cold conditions it will help mixing and application if the material can be stored in a warm environment for at least 24 hours prior to use. A temperature of 23°C is recommended.

There may be slight variations in colour from batch to batch.

### **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.