



# Protective & Marine Coatings

# FIRETEX<sup>®</sup> FFC250 WATER BASED INTUMESCENT

FORMERLY KNOWN AS FFC250 FIRETEX BARRIER COATING

Revised 10/2021 Issue 7

## PRODUCT INFORMATION

### PRODUCT DESCRIPTION

A Waterbased, flexible, fire resistant coating

### RECOMMENDED USE

A fire resistant coating for galvanized ductwork

### RECOMMENDED APPLICATION METHODS

Airless Spray

Recommended Cleanser/Thinner: Water

### ENDORSEMENTS

BS476 Part 6 – Fire Propagation  
BS476 Part 7 – Surface Spread of Flame  
BS6853 Annex B – Toxic Fume Test  
BS6853 Annex D – Smoke Emissions – for details of substrate/scheme consult Sherwin-Williams.

### PRODUCT CHARACTERISTICS

**Flash Point:** Above 55°C

**% Solids by Volume:** 55 ± 3% (ASTM-D2697-91)

**Colour Availability:** Red

#### VOC

50 gms/litre calculated from formulation to satisfy EC Solvent Emissions Directive  
34 gms/kilo content by weight from formulation, to satisfy EC Solvent Emissions Directive

### TYPICAL THICKNESS

Dry film thickness	Wet film thickness	Theoretical coverage
350 microns	635 microns	1.57 m <sup>2</sup> /ltr*

\* This figure makes no allowance for surface profile, uneven application, overspray or losses in containers and equipment. Film thickness will vary depending on actual use and specification.

### PRACTICAL APPLICATION RATES-MICRONS PER COAT

#### Airless Spray

Dry	350*
Wet	635

\* Maximum sag tolerance typically 818µm wet (450µm dry) by airless spray.

### AVERAGE DRYING TIMES

	At 15°C	At 23°C
To touch:	4 hours	2 hours
To recoat:	8 hours	6 hours
To handle:	24 hours	22 hours

*These figures are given as a guide only. Factors such as air movement and humidity must also be considered. Film thickness will vary depending on actual use and specification.*

### RECOMMENDED TOPCOATS

Indefinitely overcoatable with itself  
Consult Sherwin-Williams for advice regarding other suitable topcoats.

### PACKAGE

Single component material.

**Pack Size:** 200 litre units.

**Weight:** 1.48 kg/litre

**Shelf Life:** 12 months from date of manufacture or 'Use By' date where specified. Protect from frost, maximum temperature 25°C.



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### **SURFACE PREPARATION**

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

### **APPLICATION EQUIPMENT**

#### **Conventional Spray**

Nozzle Size : 0.53-0.63mm (21-25 thou)  
Fan Angle : 40°  
Operating Pressure: 315kg/cm<sup>2</sup> (4500 psi)

The airless spray details given above are intended as a guide only. Details such as fluid hose length and diameter, paint temperature and job shape and size all have an effect on the spray tip and operating pressure chosen. However, the operating pressure should be the lowest possible consistent with satisfactory atomisation. As conditions will vary from job to job, it is the applicators' responsibility to ensure that the equipment in use has been set up to give the best results. If in doubt Sherwin-Williams should be consulted.

Recommended Equipment : Use a 45:1 or 60:1 Graco King or equivalent. Use 3/8" ID fluid lines where lengths in excess of 10 feet are required. In-line gun or pump filters should not normally be used.

### **APPLICATION CONDITIONS AND OVERCOATING**

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

At application temperatures below 10°C, drying and curing times will be significantly extended, and spraying characteristics may be impaired.

At relative humidities in excess of 65%, drying will be significantly extended.

A minimum temperature of 5°C is required to ensure proper film formation.

Relative humidity should not exceed 80% to ensure proper film formation.

Extended overcoating times may be required at low temperatures and/or high film thicknesses, otherwise cracking may occur. If the maximum recommended thickness per coat is exceeded or high film thicknesses are overcoated prematurely, cracking may occur.

### **ADDITIONAL NOTES**

In common with other water based coatings, the drying of this material is retarded by high humidity conditions. Lack of air movement also slows down the drying process, and under such conditions, it is advisable to introduce some method of circulating air over the coated surface in order to speed up the drying. A ventilated air speed of 2 metres per second is recommended.

FFC250 Firetex Barrier Coating may thicken on storage over time. If this occurs, it is possible to thin the product by incremental additions of 1% water ( up to a maximum of 5% ). Care must be taken as over-thinning with water may affect sag resistance.

Numerical values quoted for physical data may vary slightly from batch to batch.

### **HEALTH & 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.