Protective & Marine Coatings

FIRETEX® FX8002
EPOXY INTUMESCENT

Revised 02/2016 Issue 2

PRODUCT INFORMATION

PRODUCT DESCRIPTION

Epoxy intumescent suitable for cellulosic fire protection

RECOMMENDED USE

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.

After application, the coating must be protected from the weather preferably for 48 hours at a temperature of 15°C 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.

ENDORSEMENTS

For cellular beam fire protection consult Sherwin-Williams Fire Estimation and Engineering Team.

RECOMMENDED APPLICATION METHODS

Airless Spray (see notes overleaf)
Trowel (small areas and touch up only)

Recommended Cleanser Thinner: No9 may be used for cleaning equipment - **Do NOT Thin**

PRODUCT CHARACTERISTICS

Flash Point: Base: 12°C Additive: 12°C

% Solids by Volume: 85 ± 4% (ASTM-D2697-91)

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

Pot Life: 60 minutes @ 15°C 45 minutes @ 23°C

VOC
125 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 Fire Rating Tables

PRACTICAL APPLICATION RATES - MICRONS PER COAT

	Airless Spray
Dry	1000 *
Wet	1175

***** *Maximum sag tolerance typically 2350µm wet (2000µm dry) by spray.*

AVERAGE DRYING TIMES

	@ 15°C	@ 23°C
To touch:	16 hours	12 hours
To handle:	16 hours	12 hours
To recoat:	48 hours	36 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 PRIMERS

Macropoxy L574 Blast Primer
Macropoxy C425V2 Zinc Phosphate Primer
Macropoxy C400V3 Epoxy Primer/Buildco
Macropoxy M111 Wet Blast Primer
FIRETEX C69 Fast-Track Blast Primer

RECOMMENDED TOPCOATS

Indefinitely overcoatable with high performance systems provided the surfaces to be coated are free from all contaminants. Where a high degree of gloss and colour retention is required overcoat with Acrolon C137V2 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 FX8002 is indefinitely overcoatable with itself.

PACKAGE

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

Pack Size:	6 litre and 15 litre units when mixed
Mixing Ratio:	2 parts base to 1 part additive by volume
Weight:	1.26 kg/litre
Shelf Life:	2 years from date of manufacture or 'Use By' date where specified.

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SURFACE PREPARATION

If applying directly to steel, 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 (25-33 thou)
Fan Angle	:	30°
Operating Pressure	:	250kg/cm² (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 consisted with satisfactory atomisation.

Recommended Equipment : Use a 60:1 Graco King 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. A 30's mesh pump filter is recommended but no finer filters must be used. Suction hoses should not be used.

All equipment and lines must be flushed out using Cleanser/ Thinner No. 2

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 FX8002 for site application, but proper attention must be paid to the temperature and moisture recommendations listed in this section.

This material should preferably be applied at temperatures in excess of 15ºC. Substrate temperature shall be at least 3ºC above the dew point and always above 0°C.

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 15ºC 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 react ion 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.

REINFORCEMENT
Where the FX8002 thickness exceeds 5mm dft on structural beam sections then FIRETEX J120 scrim cloth must be installed. For I section columns and hollow section columns FIRETEX J120 must be used when the thickness exceeds 7mm. Consult Sherwin-Williams for further details on scrim installation method. Numerical values quoted for physical data may vary slightly 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.

DISCLAIMER

WARRANTY