



Protective & Marine Coatings

FIRETEX® M95/02 EPOXY INTUMESCENT

Revised 07/2016 Issue 5

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, 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 50 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

Certifire Approved – Certificate CF5289
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: DO NOT THIN

PRODUCT CHARACTERISTICS

Flash Point: Base : 24°C Additive : 24°C

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

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

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

VOC

127 gms/litre determined practically in accordance with UK Regulations PG6/23
124 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 | 2000* |
| Wet | 2350 |

* Maximum sag tolerance typically 3525µm wet (3000µm dry) by airless spray.

AVERAGE DRYING TIMES

@ 15°C @ 23°C

To touch: 16 hours 12 hours

To recoat: 16 hours 12 hours

To handle: 48 hours 36 hours

Pot Life: 60 minutes 45 minutes

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 C400V3 Epoxy Primer/Buildocat
Macropoxy M111 Wet Blast Primer
FIRETEX C69 Fast-Track Blast Primer

RECOMMENDED TOPCOATS

Recommended topcoats: For self overcoating, the maximum overcoat period is 7 days. Outside of this period, mechanical abrasion will be required to ensure optimum adhesion. Where a high degree of gloss 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.

PACKAGE

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

Pack Size: 18 litre unit 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 CONDITIONS

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 consistent 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 M95/02 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 15°C. Substrate temperature shall be at least 3°C 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 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.

REINFORCEMENT

For use on I column 4 sided beams and hollow columns, FIRETEX J220 scrim cloth must be installed.

For use on structural 3 sided I beam sections, FIRETEX J120 or J220 scrim cloth must be installed around the bottom flange of the beam.

Consult Sherwin-Williams for further details.

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.

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.