



# FIRETEX M95/02

## PRODUCT TECHNICAL DATA

<b>FULL DESCRIPTION</b>	: FIRETEX M95/02 EPOXY INTUMESCENT COATING
<b>MATERIAL TYPE</b>	: Epoxy intumescent suitable for cellulosic fire protection
<b>RECOMMENDED USE</b>	: 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. : <b>After application, 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.</b>
<b>ENDORSEMENTS</b>	: Certifire Approved – Certificate CF5289 : For cellular beam fire protection consult Sherwin-Williams Fire Estimation and Engineering Team.
<b>RECOMMENDED APPLICATION METHODS</b>	: <b>Airless Spray ( see notes overleaf )</b> : Trowel ( small areas and touch up only )
<b>COLOUR AVAILABILITY</b>	: Pale Blue ( white base plus blue additive )
<b>FLASH POINT</b>	: Base : 24°C Additive : 24°C
<b>% SOLIDS BY VOLUME</b>	: 85 ± 4% (ASTM-D2697-91)
<b>V.O.C.</b>	: 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 SED
<b>TYPICAL THICKNESS</b>	: <b>See Fire Rating Tables</b>
<b>PRACTICAL APPLICATION RATES- microns per coat</b>	: <b>Airless Spray</b> : Dry 2000* : Wet 2350 * <i>Maximum sag tolerance typically 3000µm dry by spray.</i>
<b>AVERAGE DRYING TIMES</b>	: <b>At 15°C</b> <b>At 23°C</b> : <b>To touch</b> : 16 hours 12 hours : <b>To recoat</b> : 16 hours 12 hours : <b>To handle</b> : 48 hours 36 hours <i>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.</i>
<b>RECOMMENDED THINNER</b>	: <b>Do NOT Thin</b>
<b>RECOMMENDED CLEANSER</b>	: Cleanser/Thinner No. 2 may be used for cleaning equipment
<b>RESISTANCE TO</b>	: Moisture - Excellent Aliphatic solvents - Good : Acid spillage - Good Abrasion - Excellent : Alkali spillage - Good Weather – Excellent ( subject to chalking ) : Petroleum solvents - Good
<b>RECOMMENDED PRIMERS</b>	: Metagard L574 Blast Primer : Epigrip C425V2 Zinc Phosphate Primer : Epigrip C400V3 Epoxy Primer/Buildcoat : Epigrip M111 Wet Blast Primer : FIRETEX C69 Fast-Track Blast Primer
<b>RECOMMENDED TOPCOATS</b>	: 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 Resistex C137V2 within 7 days at a minimum DFT of 50 microns or in the case of C750V2 overcoat within 4 days. These overcoating times refer to achievement of optimum adhesion at 23°C and will vary with temperature.
<b>POT LIFE</b>	: 60 minutes at 15°C 45 minutes at 23°C
<b>PACKAGE</b>	: A two component material supplied in separate containers to be mixed prior to use : <b>Pack Size</b> : 18 litre unit when mixed : <b>Mixing Ratio</b> : 2 parts base to 1 part additive by volume : <b>Weight</b> : 1.26 kg/litre : <b>Shelf Life</b> : 2 years from date of manufacture or 'Use By' date where specified.

## **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.

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## **APPLICATION EQUIPMENT:**

### **Airless Spray**

Nozzle Size : 0.64-0.84mm (25-33 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 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.

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## **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 should 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.

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## **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.

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## **HEALTH AND SAFETY:**

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

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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.