



FIRETEX® FX2002

SOLVENT BASED INTUMESCENT

Revised 04/2025 Issue 14

PRODUCT DESCRIPTION

A single pack thin film intumescent coating.

RECOMMENDED USE

FIRETEX FX2002 is designed for in-shop application by airless spray, to provide fire resistance for up to 120 minutes on structural steel. After appropriate drying, FIRETEX FX2002 specifications can be exposed to the weather for up to 6 months provided that the specific use or storage does not lead to ponding water due to rainfall, condensation or other site/transportation/storage circumstances.

PRODUCT TECHNICAL DATA

Volume Solids:	75% ± 4% (ASTM-D2697-03)
Weight Solids:	81% ± 4%
VOC:	272 g/l determined practically in accordance with UK Regulations PG6/23. 351 g/l calculated from formulation to satisfy EC Solvent Emissions Directive. 266 g/kg content by weight from formulation, to satisfy EC Solvent Emissions Directive.
Colours:	White
Flash Point:	2°C.
Cleaner/Thinner:	Cleanser/Thinner No.2
Pack Size:	Single component material: 200 litre (264 kg) and 20 litre (26.4 kg) units Weight will vary with colours and density.
Density:	1.320 kg/l (may vary with colours).
Shelf Life:	2 years from date of manufacture, stored in originally sealed containers in a cool and dry environment.

Recommended Application Methods:

Airless Spray

Typical Thickness:

Recommended Spreading Rate Per Coat

	Airless Spray
Dry	1400 µm
Wet	1867 µm
Theoretical Consumption*	2.464 kg/m ² 1.867 l/m ²
Theoretical Coverage*	0.41 m ² /kg 0.54 m ² /l

AVERAGE DRYING TIMES

	+ 15°C	+ 23°C
Dry to touch	30 minutes	20 minutes
Dry to handle	This will depend on the total thickness of FIRETEX FX2002 to be applied	
To Recoat	4 hours	4 hours

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

APPROVALS & ENDORSEMENTS

Independently fire tested and approved to major European and national standards including:

- EN 13381-8 (ref: ETA 20/1227)
- CE Marking Number 2812-CPR-GA5005
- Lithuania GTC Certification: GTC 100831

SURFACE PREPARATION

FIRETEX FX2002 is designed for use over a suitably prepared and primed substrate. Ensure surfaces to be coated are clean, dry and free from all surface contamination such as oil, grease, dirt and corrosion products to achieve satisfactory adhesion. Under certain circumstances it may be possible to apply FIRETEX FX2002 directly to steel blast cleaned to a minimum standard of Sa2½ ISO 8501-1, surface profile in the range 50-100 microns. Consult Sherwin-Williams for further details.

APPLICATION CONDITIONS

This material should preferably be applied at temperatures in excess of 5°C. In conditions of high relative humidity, ie 80-85% good ventilation conditions are essential. Substrate temperature shall be at least 3°C above the dew point and always above 0°C.

The material must be protected from moisture during the drying period. Moisture ingress prior to drying may affect the integrity and fire protective properties of the coating.

No more than 2 coats by airless spray should be applied within any 24 hour period.

If the maximum recommended thickness per coat is exceeded or high film thicknesses are overcoated prematurely, cracking may occur.

FIRETEX FX2002 is capable of withstanding external exposure without topcoat providing:

- The product is allowed to dry for at least 24 hours at 15°C in dry conditions with good air movement and ventilation. These conditions are based on a total dry film thickness of up to 800 microns. The drying time required will be increased if the film thickness is greater than 800 microns.

- The substrate temperature is at least 3°C above the dew point at the time of application and during the drying period.



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APPLICATION EQUIPMENT

Airless Spray

Tip Size: 0.53 – 0.69mm (21 – 27 thou) depending on application requirements

Fan Angle: 30°

Operating Pressure: 210kg/cm² (3000 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 satisfactory atomisation.

Recommended Equipment:

Use a 56:1 or 68:1 Graco King or equivalent. Use 3/8" (9.53mm) ID fluid lines where lengths in excess of 3 metres are required. In-line gun or pump filters should not normally be used. Maximum length of fluid line should not exceed 60 metres.

For use on narrow web sections, the smallest tip recommended is a 21 thou (0.53mm) with a 60 mesh pump filter.

RECOMMENDED SYSTEMS

Primer

For in-shop application, use FIRETEX C69 Fast-Track Blast Primer. Several primers have been approved for use under FIRETEX FX2002. Please consult Sherwin-Williams for detailed information.

Topcoats

For certain dry, internal situations where the final colour/ appearance is not critical, then FIRETEX FX2002 may remain un-topcoated.

For externally exposed steelwork and severe internal environments Acrolon 7300, Acrolon C137V2 or Acrolon C237 must be used as a topcoat. For other internal environments where a topcoat is required then FIRETEX M71V2 or Sher-Cryl M770 should be used.

In all instances for subsequent re-decoration, use FIRETEX M71V2, Sher-Cryl M770, Acrolon 7300, Acrolon C137V2 or Acrolon C237 as appropriate.

ADDITIONAL NOTES

Maximum service temperature is 70°C. At temperatures greater than 40°C thermoplasticity may be observed..

Dry Film Thickness Measurement

All dft specifications quoted are mean values, measurements should be taken for I-Sections to the following recommendations:

Web – 2 per 100cm length

Flange – (upper, lower, inside and outside) – 1 per 100cm length

High dft's and/or reduced temperatures will extend the drying time and hence the period when dft measurement can be carried out accurately. For further information refer to Sherwin-Williams.

Maintenance

Small areas of mechanical damage can be repaired using FIRETEX M72, FX1002 or FX2002 as preferred.

Larger areas of mechanical damage should be repaired using FIRETEX FX1002 or FX2002 as preferred, applied by brush or spray.

All repairs should then have the original topcoat reinstated by brush or spray as required.

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

Maximum Allowable Dry Film Thickness

For Maximum Allowable Dry Film Thickness, consult the Sherwin-Williams Customer Service Department and ask for TAD0066.



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HEALTH & SAFETY

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

WARRANTY

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