



FIRETEX® FX6002

ULTRA FAST DRYING INTUMESCENT

Revised 12/2024 Issue 10

PRODUCT DESCRIPTION

Ultra fast-drying and durable intumescent coating.

RECOMMENDED USE

FIRETEX FX6002 has been designed to give the shortest possible time from application to handling for fire resistance periods up to 2 hours. The cured paint film is durable, damage resistant and can be exposed to the weather after 4 hours @ minimum 15°C.

PRODUCT TECHNICAL DATA

Volume Solids:	92% ± 3% (ASTM-D2697-03)
Weight Solids:	99% ± 3%
VOC:	24 g/l calculated from solids by volume determination.
Colours:	Light grey
Flash Point:	Base: 10°C, Hardener (Additive) 10°C
Cleaner/Thinner:	No. 9 or E+B (Cleaning only) FX6002 Must not be thinned.
Pack Size:	A multi component material supplied in separate containers to be mixed prior to use: 36 litre (52.9kg) units when mixed. Weight will vary with colours and density.
Density:	1.470 kg/l (may vary with colours).
Mixing Ratio:	0.5 kg (0.42 litre) bottle of FIRETEX FX6002 Catalyst is added to the Additive (Grey) component, this is then mixed 1:1 (by volume) with the base (white) component.
Shelf Life:	12 months from date of manufacture, stored in originally sealed containers in a cool and dry environment. "Use By" date where specified. Both transportation and long term storage of the product must be in a covered environment, out of direct sunlight and in the temperature range 5° to 30°C.

Recommended Application Methods:

Specialised Plural Component Airless Spray.

Brush or roller for small repair areas or stripe coat.

Typical Thickness:

Recommended Spreading Rate Per Coat

	Airless Spray
Dry	1840 µm
Wet	2000 µm
Theoretical Consumption*	2.940 kg/m ² 2.000 l/m ²
Theoretical Coverage*	0.34 m ² /kg 0.50 m ² /l

*A minimum dry film thickness of 400 microns MUST be achieved. At film thicknesses below this figure retarded curing will be evident..

Pot Life:

10°C	15°C	23°C
45 minutes	30 minutes	15 minutes

Pot life is dependent on temperature and volume.

AVERAGE DRYING TIMES

	+ 10°C	+ 15°C	+ 23°C
Dry to touch	2 hours	1 hour	45 minutes
Dry to handle	3 hours	2 hours	1 hour
To Recoat	2½ hours	1½ hours	1 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:

- Tested to BS476-20/21 (UL Certificate BS-RC-0022)
- EN 13381-8 (ref: ETA 20/1261)
- EN 13381-9
- CE Mark Number: 2812-CPR-GA5038
- Switzerland VKF Certification No. 31871.
- Australia AS4100 Certification FC2000-01-C1
- Singapore SETSCO Certificate of Conformity: FSP-2022-1262
- Lithuania GTC Certification: GTC 100879
- Malaysia BOMBA Certification
- German ABg Z-19.51-2672

Tested and assessed in accordance with the ASFP 'Yellow Book' 5th edition for Cellular beam fire protection.

SURFACE PREPARATION

FIRETEX FX6002 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.

Special care must be exercised in the removal of dry overspray dust prior to the application of FIRETEX FX6002.

Under certain circumstances it may be possible to apply FIRETEX FX6002 directly to steel blast cleaned to a minimum standard of Sa 2½ (ISO 8501-1), surface profile in the range 50 – 100 microns.

Consult Sherwin-Williams Customer Service Department for further details.



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MIXING

Prior to mixing the product, ensure the application equipment has been thoroughly flushed with Cleanser Thinner No. 9 or E+B.

Add the pre-measured FIRETEX FX6000 Series Catalyst to:

FIRETEX FX6002 Hardener (Additive) Component A (Grey). Mix thoroughly using a mechanical stirrer with a stainless steel paddle.

Using a separate mechanical stirrer, thoroughly stir FIRETEX FX6002 Base (White) until homogenous.

This assumes feed pumps to the spray pump. The base and hardener (additive) are now ready to be applied via the plural component pump using a 1:1 (by volume) mix ratio and following the pump manufacturer's instructions.

APPLICATION CONDITIONS

FIRETEX FX6002 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.

Application at ambient air temperatures below 5°C is not recommended.

APPLICATION EQUIPMENT

Airless Spray

Tip Size: 0.53 – 0.73mm (21 – 29 thou) depending on application requirements

Operating Pressure: 245kg/cm² (3500 psi)

The details of airless spray tip orifice size, fan angle and pressure are given as a guide. The fan angle should be selected according to the size and shape of the substrate being coated. 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 Wiwa Duomix 270 or Graco Xtreme plural component pumps. For advice please consult Sherwin-Williams.

Use 20 metres of 3/8" (9.53mm) ID fluid line, with a further 2 metres of 8mm fluid line. Total length of fluid line 22 metres. For use on narrow web sections, the smallest tip recommended is 0.53mm (21 thou).

FIRETEX FX6002 maybe applied by brush or solvent resistant roller for small repair areas or stripe coating of edges.

RECOMMENDED SYSTEMS

Primer

For in-shop application, use FIRETEX C69 Fast-Track Blast Primer. Several primers have been approved for use under FIRETEX FX6002. Please consult Sherwin-Williams for detailed information.

Topcoats

Several topcoats have been fire tested and approved for use over FIRETEX FX6002.

Please consult Sherwin-Williams for detailed information.

ADDITIONAL NOTES

Overcoating with an approved top coat must take place within 28 days following completion of the Intumescent System. If 28 days is exceeded the surfaces to be coated shall be cleaned to remove any contamination, abraded and the abrasion residue removed to ensure optimum adhesion.

A very low thickness or discontinuous film of FIRETEX FX6002 can lead to retarded or incomplete curing of the coating. To address this a minimum dry film thickness of 400 microns per coat **MUST** be achieved.

Drying times, curing times and pot life should be considered as a guide only.

The reaction between the base component and the catalyst is highly exothermic. Deviation from the recommended mixing ratio should not be undertaken without first consulting Sherwin-Williams Customer Service Department.

The catalyst must be stored separately from the base, and from any other paint or chemical products, in accordance with the product safety data sheet.

The quoted pot lives are typical figures for a 1 litre unit. Should any thickening or lumps appear in the Hardener (Additive) Component (Grey), this should be discarded and the equipment flushed through immediately. Reduction in catalyst level and/or volume of mixed product will extend the pot life.

Only mix units of FIRETEX FX6002 as they are required for immediate use.

FIRETEX FX6002 should not be thinned with cleanser thinners or any other solvent. Thinning will severely impair the curing mechanism and subsequent performance. Thinning with normal paint solvents can lead to exothermic reaction and possible fire or explosion hazard.

Note: The shelf life of Hardener (Additive) Component A (Grey) is limited. After addition of the catalyst, the shelf life is 48 hours at 23°C.

Maximum Allowable Dry Film Thickness

The values stated below are the maximum allowable measured mean dry film thicknesses for this product. If measured mean thicknesses are in excess of these values, measures need to be taken to reduce the measured thickness to below the maximum allowed:

Dry Film Thickness Measurement:

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

3 sided / 4 sided I beam:	6,045 µm (238 mil)
4 sided I column:	7,520 µm (296 mil)
RHS column:	8,737 µm (345 mil)
CHS column:	8,752 µm (354 mil)
3 sided / 4 sided RHS beam:	5,992 µm (236 mil)

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.

For further information refer to Sherwin-Williams Customer Service Department.

Durability:

The product shall be applied in conjunction with the primers and sealercoats where stated in the Sherwin-Williams specification for the given environment. FX6002 is not suitable for permanent water immersion, but will withstand water contact that can be expected to be encountered under atmospheric exposure on structural steelwork in the given corrosivity category.



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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

Whilst all statements made about our products (whether in this data sheet or otherwise) are correct and accurate to the best of our knowledge, we have no control over the quality or the condition of the substrate, the application conditions or the many other factors affecting your use and application of our product.

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