



Protective & Marine Coatings

FIRETEX® FX6002 ULTRA FAST DRYING INTUMESCENT

Revised 10/2023 Issue 9

PRODUCT INFORMATION

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.

ENDORSEMENTS

Tested to BS476-20/21.
Certifire Approved - Certifire CF5644.
Tested and assessed to EN13381-8 and EN13381-9
European Technical Assessment ETA-20/1261.
CE Mark Number: 2812-CPR-GA5038.
Certified according to VKF Nr. 31871.
AS4100 Certification: WF409488.
SETSCO (Singapore) Certificate of Conformity: FSP-2022-1262
GTC (Lithuania) Certification: GTC 100879
BOMBA (Malaysia) Certification
LEED v4 and 4.1
Certified according to ABg Z-19.51-2672.
Tested and assessed in accordance with the ASFP 'Yellow Book' 5th edition for Cellular beam fire protection.

RECOMMENDED APPLICATION METHODS

Specialised Plural Component Airless Spray.
Brush or roller for small repair areas or stripe coat.

Recommended Cleanser/Thinner: No. 9 or E+B Cleaning only.

FIRETEX FX6002 MUST NOT BE THINNED

PRODUCT CHARACTERISTICS

Flash Point: Base: 10°C Additive: 10°C

% Solids by Volume: 92 ± 3% ASTM D2697-03(2014)

VOC 24 g/ltr
Calculated from solids by volume determination

PRACTICAL APPLICATION RATES - MICRONS PER COAT

	Airless Spray
Dry	1840 *
Wet	2000

*A minimum dry film thickness of 400 microns MUST be achieved.

AVERAGE DRYING TIMES

	@ 10°C	@ 15°C	@ 23°C
To touch:	2 hours	1 hour	45 minutes
To handle:	3 hours	2 hours	1 hour
To recoat:	2½ hours	1½ hours	1 hour
Pot life:	45 minutes	30 minutes	15 minutes

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

DURABILITY

FIRETEX FX6002 is a durable coating which can be specified for use in external environments up to C5 as defined in ISO 12944-2.

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.

RECOMMENDED PRIMERS

For in-shop application, use FIRETEX C69 Fast-Track Blast Primer.

Several primers have been fire tested and approved for use under FIRETEX FX6002. Please consult Sherwin-Williams for detailed information.

RECOMMENDED TOPCOATS

Several topcoats have been fire tested and approved for use over FIRETEX FX6002. Please consult Sherwin-Williams for detailed information.

PACKAGE

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

Pack Size: 36 litre unit when mixed

Mixing Ratio: 1% Catalyst (on weight of total mix) is added to the Additive (Grey) component, this is then mixed 1:1 (by vol) with the Base (White) component

Weight: 1.47 kg/litre fully mixed unit

Shelf Life: 12 months @ 5-30°C



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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.

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 (BS EN ISO 8501-1:2007), surface profile in the range 50 – 100 microns. Consult Sherwin-Williams Customer Service Department for further details.

APPLICATION EQUIPMENT

A comprehensive application manual is available and will be provided to approved contractors. All application equipment needs to be approved by Sherwin Williams.

The application of Methacrylate Intumescent materials requires equipment with specific performance characteristics. Please refer to the manual for a list of equipment that has been tested for these types of applications.

Airless Spray

Nozzle Size: 0.53 – 0.73mm (21 – 29 thou)

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" (9.5mm) 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.

APPLICATION CONDITIONS AND OVERCOATING

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.

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

MIXING INSTRUCTIONS

36 litre unit.

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 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 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.



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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 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. Flushing of spray equipment is essential before any break in work, and is recommended at regular intervals throughout the application procedure. 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 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:

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 (344 mil)

CHS column: 8,752 µm (345 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.

HEALTH AND SAFETY

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

DISCLAIMER

The information and recommendations set forth in this Product Data Sheet are based upon tests conducted by or on behalf of The Sherwin-Williams Company. Such information and recommendations set forth herein are subject to change and pertain to the product offered at the time of publication. Consult your Sherwin-Williams representative to obtain the most recent Product Data Information and Application Bulletin.

WARRANTY

The Sherwin-Williams Company warrants our products to be free of manufacturing defects in accord with applicable Sherwin-Williams quality control procedures. Liability for products proven defective, if any, is limited to replacement of the defective product or the refund of the purchase price paid for the defective product as determined by Sherwin-Williams. NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY SHERWIN-WILLIAMS, EXPRESSED OR IMPLIED, STATUTORY, BY OPERATION OF LAW OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.