



Protective & Marine Coatings

FIRETEX® FX6002 ULTRA FAST DRYING INTUMESCENT

Revised 17/10/2018 Issue 1

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

Certifire Approved - Certificate CF5644
European Patent No. EP1636318
Canadian Patent No. CA2530380

RECOMMENDED APPLICATION METHODS

Specialised Plural Component Airless Spray

Recommended Cleanser/Thinner: No. 9 Cleaning only.

FIRETEX FX6002 MUST NOT BE THINNED

PRODUCT CHARACTERISTICS

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

% Solids by Volume: 92 ± 3% (ISO 3233:1998)

VOC 24 g/ltr

Calculated from solids by volume determination

PRACTICAL APPLICATION RATES - MICRONS PER COAT

	Airless Spray
Dry	400 - 1840 *
Wet	435 - 2000

***A minimum dry film thickness of 300 microns MUST be achieved. At film thicknesses below this figure, retarded curing will be evident.**

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 can resist normal weather conditions for up to 6 months without topcoat. Once an approved topcoat has been applied as appropriate to the prevailing conditions, then durability will be as per the appropriate category in the FIRETEX FX6002 specifications selector document.

Topcoated FIRETEX FX6002 can resist ponding water conditions for up to 7 days, without detrimental effect. Beyond this time, damage may occur.

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 (by weight) 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:	6 months @ 5-25°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 (ISO 8501-1:2007), surface profile in the range 50 – 100 microns. Consult Sherwin-Williams Customer Service Department for further details.

APPLICATION EQUIPMENT

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 230 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).

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. 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.

ADDITIONAL NOTES

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.

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.