

Revised 11/2015 Issue 3

PRODUCT INFORMATION

PRODUCT DESCRIPTION

FIRETEX FX6000 INTUMESCENT COATING

Material Type: Ultra fast-drying and durable intumescent coating

RECOMMENDED USE

FIRETEX FX6000 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 and damage resistant and can be exposed to the weather after 4 hours @ minimum 15°C.

ENDORSEMENTS

Certifire Approved - Certificate C5300
European Patent No. EP1636318
Canadian Patent No. CA2530380

RECOMMENDED APPLICATION METHODS

Specialised Plural Component Airless Spray
 The material will be supplied to registered contractors, who have been trained in the handling and use of FIRETEX FX6000.

Recommended Cleanser/Thinner: No. 9 Cleaning only.
FIRETEX FX6000 MUST NOT BE THINNED

PRODUCT CHARACTERISTICS

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

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

Colour Availability: Grey

VOC

24 grammes/litre
 Calculated from solids by volume determination

RECOMMENDED THICKNESS

Dry Film Thickness Range: 300 – 3000 microns
Wet Film Thickness Range: 326 – 3260 microns
Theoretical Coverage: 3.0 – 0.3 m²/ltr*

*This figure makes no allowance for surface profile, uneven application, overspray or losses in containers and equipment. Film thickness will vary depending on actual use and specification

PRACTICAL APPLICATION RATES - MICRONS PER COAT

	Airless Spray
Dry	300 - 3000 *
Wet	326 - 3260

***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 FX6000 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 FX6000 specifications selector document.

Topcoated FIRETEX FX6000 can resist ponding water conditions for up to 7 days, without detrimental effect. Beyond this time, performance will progressively deteriorate.

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 FX6000. Please consult Sherwin-Williams Customer Service Department for detailed information.

RECOMMENDED TOPCOATS

For certain dry, internal situations where the final colour/appearance is not critical, then FIRETEX FX6000 may remain untopcoated.

For externally exposed steelwork and severe internal environments either Resistex C137V2 or Resistex C237 must be used as a sealer. For other internal environments where a sealer is required then FIRETEX M71V2 should be used.

For self overcoating, the maximum recommended interval is 14 days at 23°C.

For topcoating with M71V2, Resistex C137V2 or Resistex C237, the max recommended interval is 14 days.

In all instances for subsequent redecoration, use FIRETEX M71V2, Resistex C137V2 or Resistex C237 as appropriate.

PACKAGE

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

Pack Size:	36 litre unit when mixed
Mixing Ratio:	1:1 components A:B by volume – Additive component A containing 1% catalyst by weight
Weight:	1.44 kg/litre fully mixed unit
Shelf Life:	6 months @ 25°C

PRODUCT INFORMATION

SURFACE PREPARATION

FIRETEX FX6000 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 FX6000.

Under certain circumstances it may be possible to apply FIRETEX FX6000 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)
Fan Angle : 30°
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 given is for work on large flat surfaces. 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 GRACO Extreme Plural Component Unit or Duomix 230 Unit. 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 Catalyst Component C and add it to:

FIRETEX FX6000 Additive Component A (Grey).
Mix thoroughly using a mechanical stirrer with a stainless steel paddle.
Using a separate mechanical stirrer, thoroughly stir FIRETEX FX6000 Base Component B (White) until homogenous.
Then attach the pumps from the application equipment to the now catalysed FIRETEX FX6000 Additive Component A and FIRETEX FX6000 Component B and commence application. Consult Sherwin-Williams Customer Service Department for further details.

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 FX6000 as they are required for immediate use.

FIRETEX FX6000 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. Therefore we recommend only mixing larger units of FIRETEX FX6000 as they are required for immediate use.

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 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.