



Protective & Marine Coatings

FIRETEX® FX6010 ULTRA FAST DRYING INTUMESCENT

11/2022 Issue 2

PRODUCT INFORMATION

PRODUCT DESCRIPTION

Ultra fast-drying and durable intumescent coating.

RECOMMENDED USE

FIRETEX FX6010 is a rapid curing intumescent coating, designed to provide up to 2 hours fire protection to structural steel. It is suitable for in-shop and on-site application, using single leg spray equipment.

ENDORSEMENTS

Tested to BS476-20/21.
Tested and assessed to EN13381-8 and BS EN13381-9.
CE Mark Number: 2812-CPR-GA5057.
European Technical Assessment: ETA 22/0571.
Certifire Approved - Certificate CF6086.
Tested and assessed in accordance with the ASFP 'Yellow Book' 5th Edition for Cellular beam fire protection.

RECOMMENDED APPLICATION METHODS

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

Recommended Cleanser: No. 9 Cleaning only.

FIRETEX FX6010 MUST NOT BE THINNED

PRODUCT CHARACTERISTICS

Flash Point: Base: 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	1470 *
Wet	1600

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

AVERAGE DRYING TIMES

	@ 10°C	@ 15°C	@ 23°C
To touch:	3½ hours	2½ hours	1½ hours
To handle:	4 hours	3 hours	2 hours
To recoat:	2 hours	1½ hours	1 hour
Pot life:	60 minutes	55 minutes	45 minutes

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

DURABILITY

FIRETEX FX6010 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.

FIRETEX FX6010 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 FX6010. Please consult Sherwin-Williams for detailed information.

RECOMMENDED TOPCOATS

Several topcoats have been fire tested and approved for use over FIRETEX FX6010. Please consult Shewin-Williams for detailed information.

PACKAGE

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

Pack Size:	18 litre unit when mixed
Mixing Ratio:	0.26 kg bottle of FIRETEX FX6010 catalyst is added to the base (Grey) component
Weight:	1.46 kg/litre fully mixed unit
Shelf Life:	9 months @ 5-30°C



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SURFACE PREPARATION

FIRETEX FX6010 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 FX6010.

Under certain circumstances it may be possible to apply FIRETEX FX6010 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

Airless Spray

Nozzle Size: 0.48 – 0.68mm (19 – 27 thou)
Operating Pressure: 210kg/m² (3000 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 : Graco King series with a minimum ratio 56:1. Use 15 metres of 3/8" (9.5mm) 1D fluid line, with a further 2 metres of 8mm fluid line. Total length of fluid line 17 metres.

For use on narrow web sections, the smallest tip recommended is 0.43mm (19 thou).

FIRETEX FX6010 may be 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

18 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 FX6010 Series Catalyst to:

FIRETEX FX6010 Base (Grey) Mix thoroughly using a mechanical stirrer with a stainless steel paddle. Once homogenous, the mixed product is ready for application.

ADDITIONAL NOTES

At very low thickness or discontinuous film of FIRETEX FX6010 can lead to retarded or incomplete curing of the coating. To address this a minimum 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.

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 FX6010 as they are required for immediate use.

FIRETEX FX6010 **MUST** 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.

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.