Protective & Marine Coatings

FIRETEX® FX6000
METHACRYLATE INTUMESCENT

Revised 07/2017 Issue 9

PRODUCT INFORMATION

PRODUCT DESCRIPTION

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 @ minimum15°C.

ENDORSEMENTS

Certifire Approved - Certificate CF5300
European Patent No. EP1636318
Canadian Patent No. CA2530380
Authorised for use on London Underground assets, Product 104721
Kiwa Swedish Type Approval 1369

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 g/ltr
Calculated from solids by volume determination

RECOMMENDED THICKNESS

See separate sheet of FX6000 loading requirements.

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.

Where use of a Zinc Epoxy is required, Zinc Clad IV EU, Zinc Clad J984 and Zinc Clad J984BS are approved.

RECOMMENDED TOPCOATS

If it can be guaranteed that in-service conditions will be in a C1, C2 or C3 environment as defined in ISO 12944-2:1998, then use of a topcoat is optional.

For C1 & C2 Environments, FIRETEX M71V2 can be used as topcoat for decorative purposes. For a C3 environment either Acrolon C137V2 or Acrolon C237 can be used.

For externally exposed steelwork, or severe internal environments categorised as C4 or above (such as chemical plants, swimming pools), either Acrolon C137V2 or Acrolon C237 must be used as a topcoat.

For self overcoating and also overcoating with the listed topcoats, the maximum recommended interval is 14 days at 23°C.

In all instances for subsequent redecoration, use FIRETEX M71V2, Acrolon C137V2 or Acrolon 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% Catalyst (by wt) to be added to Component A. This then to be mixed 1:1 (by vol) with Component B.
Weight:	1.44 kg/litre fully mixed unit
Shelf Life:	6 months @ 25°C

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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

WARRANTY