Firetex FX3000

DATASHEET

Full Description	Firetex FX3000 intumescent coating.
Material Type	A single pack thin film intumescent coating.
Recommended Use	Firetex FX3000 is designed for site application by airless spray, to provide fire resistance for up to 1½ hours on structural steel. After drying for at least 24 hours at 15°C, Firetex FX3000 specifications can be exposed to the weather for up to 12 months provided that the specific use does not lead to ponding water due to rainfall, condensation or other site circumstances.
Endorsements	**1998 Compliant** – 1990 EPA-PG6/23(97) Clause 20(d) - **Industrial**
Recommended Application Methods	Airless spray Brush
Colour Availability	White.
Flash Point	27°C
% Solids By Volume	72 ± 4% (ISO 3233:1998)
V.O.C.	280* grammes/litre *1990 EPA-PG6/23(97) modified Appendix 3. *Calculated from solids by volume determination.
Typical Thickness	See separate sheets of FX3000 loading requirements.

Practical Application Rate – microns per coat

	Airless Spray	Brush
Dry	1400*	350
Wet	1944	486

Average Drying Times

	At 15ºC	At 23ºC
To Touch	1 hour	30 minutes
To Recoat	4 hours	4 hours
To Handle	This will depend on the total thickness of Firetex FX3000 to be applied.	

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

Recommended Thinner	Leigh's Cleanser/Thinner No. 2
Resistance To	Firetex FX3000 can resist normal weather conditions for up to 12 months without topcoat provided it has been allowed to fully dry prior to exposure. Once an approved topcoat has been applied as appropriate to the prevailing conditions, then durability will be substantially enhanced. Maximum service temperature is 40°C.
Recommended Primers	Several primers have been fire tested and approved for use under Firetex FX3000. Please consult Leigh's Customer Service Department for detailed information.

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Recommended Topcoats

For certain dry, internal situations where the final colour/appearance is not critical, then Firetex FX3000 may remain un-topcoated.

For externally exposed steelwork and severe internal environments Resistex C137V2 must be used as a sealer. For other internal environments where a sealer is required then Firetex M71 or Envirogard M770 should be used.

In all instances for subsequent redecoration, use Firetex M71, Envirogard M770 or Resistex C137V2 as appropriate.

Package

A single component material.

Pack Size	20 litre unit
Weight	1.32 kg/litre
Shelf Life	Minimum 2 years

Surface Preparation

Firetex M77 is designed for use over a suitable prepared and primed substrate. Ensure surfaces to be coated are dry and free from all visible traces of surface contaminants.

Under certain circumstances it may be possible to apply Firetex FX3000 directly to steel blast cleaned to a minimum standard of Sa2.5 BS7079:Part A1:1989 (ISO 851-1:1998), surface profile in the range 50 – 100 microns. Consult Leigh's Customer Service Department for further details.

Application Equipment

Airless spray

Nozzle Size	0.53-0.78mm (21-30 thou)
Fan Angle	40°
Operating Pressure	315kg/cm² (4500 psi)

The details of airless spray tip orifice size, fan angle and pressure are given as a guide. The fan angle 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 a 56:1 or 68:1 Graco King or equivalent. Use 3/8" ID fluid lines where lengths in excess of 10 feet are required. In line gun or pump filters should not normally be used. Maximum length of fluid line should not exceed 60 metres.

For use on narrow web sections, the smallest tip recommended is a 0.53mm (21 thou) with a 60 mesh pump filter.

Brush

The material is suitable for brush application but due to the nature of the material, a ribbed appearance may result.

Application of more than one coat may be necessary to give equivalent dry film thickness to a single spray applied coat.

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Application Conditions And Overcoating	The material should preferably be applied at temperatures in excess of 5°C. In conditions of high relative humidity, i.e. 80-85% good ventilation conditions are essential. Substrate temperature should be at least 3°C above dew point and always above 0°C. Application at ambient air temperatures below 5°C is not recommended. No more than 2 coats by airless spray should be applied in any 24 hour period. If the maximum recommended thickness per coat is exceeded or is overcoated prematurely, cracking may occur.
Additional Notes	<u>Dry Film Thickness Measurement</u> 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 measurements can be carried out accurately. For further information refer to Leigh's Customer Service Department. <u>Maintenance</u> Limited areas of mechanical damage should be repaired using Firetex M72, FX3000 or FX400 as preferred. Larger areas of mechanical damage should be repaired using Firetex FX3000 or FX4000 as preferred, applied by brush or spray. All repairs should then have the original topcoat reinstated by brush or spray as required. Numerical values quoted for physical data may vary slightly from batch to batch.
Health And Safety	Consult Product Health and Safety Datasheet for information on safe handling and application of this product.

The forgoing information is believed to be accurate at the time of preparation of this document, and is provided in good faith. However, no warranty or representation with respect to such information is intended of given.

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