



# Firetex FX1000

DATASHEET



<b>Full Description</b>	Firetex FX1000 Intumescent Coating.													
<b>Material Type</b>	A single pack thin film intumescent coating.													
<b>Recommended Use</b>	Firetex FX1000 is designed to provide fire resistance for up to 60 minutes on structural steel.													
<b>Endorsements</b>	<b>1998 Compliant</b> – 1990 EPA-PG6/23(97) Clause 20(d) - <b>Industrial</b>													
<b>Recommended Application Methods</b>	Airless spray Brush													
<b>Colour Availability</b>	White.													
<b>Flash Point</b>	27°C													
<b>% Solids By Volume</b>	75 ± 4% (ISO 3233:1998)													
<b>V.O.C.</b>	217* grammes/litre *1990 EPA-PG6/23(97) modified Appendix 3.													
<b>Typical Thickness</b>	See separate sheets of FX1000 loading requirements.													
<b>Practical Application Rate – microns per coat</b>	<table border="1"> <thead> <tr> <th></th> <th>Airless Spray</th> <th>Brush</th> </tr> </thead> <tbody> <tr> <td>Dry</td> <td>1000*</td> <td>300</td> </tr> <tr> <td>Wet</td> <td>1333</td> <td>400</td> </tr> </tbody> </table> <p>*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.</p>			Airless Spray	Brush	Dry	1000*	300	Wet	1333	400			
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<b>Average Drying Times</b>	<table border="1"> <thead> <tr> <th></th> <th>At 15°C</th> <th>At 23°C</th> </tr> </thead> <tbody> <tr> <td>To Touch</td> <td>1 hour</td> <td>30 minutes</td> </tr> <tr> <td>To Recoat</td> <td>4 hours</td> <td>4 hours</td> </tr> <tr> <td>To Handle</td> <td colspan="2">This will depend on the total thickness of Firetex FX1000 to be applied.</td> </tr> </tbody> </table> <p>These figures are given as a guide only. Factors such as air movement and humidity must also be considered.</p>			At 15°C	At 23°C	To Touch	1 hour	30 minutes	To Recoat	4 hours	4 hours	To Handle	This will depend on the total thickness of Firetex FX1000 to be applied.	
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<b>Recommended Thinner</b>	Leigh's Cleanser/Thinner No. 2													
<b>Resistance To</b>	<p>Firetex FX1000 can resist normal weather conditions for up to 6 months without topcoat provided it has been allowed to fully dry prior to exposure. Once either Firetex M71 or Resistex C137V2 have been applied as appropriate to the prevailing conditions, then durability will be substantially enhanced</p> <p>Maximum service temperature is 40°C.</p>													
<b>Recommended Primers</b>	Several primers have been approved for use under Firetex FX1000. 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 FX1000 may remain untopcoated.

**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 M71V2 or Envirogard M770 should be used.

In all instances for subsequent redecoration, used Firetex M71V2, Envirogard M770 or Resistex C137V2 as appropriate.

## Package

A single component material.

Pack Size	20 litre units.
Weight	1.35 kg/litre.
Shelf Life	Minimum 2 years

## Surface Preparation

Firetex FX1000 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.

Under certain circumstances it may be possible to apply Firetex FX1000 directly to steel blast cleaned to a minimum standard of Sa2½ BS7079: Part A1: 1989 (ISO8501-1:1988), surface profile in the range 50-100 microns. Consult Leigh's Customer Service Department for further details.

## Application Equipment

### Airless spray

Nozzle Size	0.69mm (27 thou) is the minimum tip size recommended
Fan Angle	40°
Operating Pressure	315kg/cm <sup>2</sup> (4500 psi)

The details of airless spray tip orifice size, fan angle and pressure are given as a guide. It may be found that slight variation in tip orifice size angle 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 60:1 Graco King or equivalent. Use 3/8" ID fluid lines where lengths in excess of 10 feet are required. Maximum length of fluid line should not exceed 60 metres. Due to the nature of this material, it may be necessary to use a 60 mesh pump filter to prevent tip blockages.

### 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 maybe necessary to give equivalent dry film thickness to a single 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 the dew point and always above 0°C.

Application at ambient air temperatures below 5°C is not recommended. The material must be protected from moisture during drying. Moisture ingress prior to drying may lead to surface defects which may be detrimental to the fire protection properties of the product.

No more than 2 coats by airless spray should be applied within 24 hour period.

**If the maximum recommended thickness per coat is exceeded or high film thicknesses are overcoated prematurely, cracking may occur.**

**After drying for at least 48 hours at 15°C, Firetex FX1000 can be exposed to the weather for up to 6 months without topcoat.**

**Applications below 15°C, Firetex FX1000 can be exposed to the weather for up to 6 months without topcoat.**

**Applications below 15°C may result in insufficient drying and reduced weather resistance and performance. If the specific use or storage could lead to ponding water due to rainfall, condensation, or other site/transportation/storage circumstances, then a recommended topcoat must be used to prevent damage to the basecoat.**

## Additional Notes

### 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 lengths.

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 Leigh's Customer Service Department.

### Maintenance

Limited areas of mechanical damage should be repaired using Firetex M72 Intumescent Mastic. The material should be applied by trowel and if necessary sealed in the normal way with Firetex M71V2 or Resistex C137V2 as appropriate. For further details see the Technical Data Sheet for Firetex M72.

## 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 or given.