



# Firetex FX7000

DATASHEET



<b>Full Description</b>	Firetex FX7000 intumescent coating.													
<b>Material Type</b>	A single pack thin film intumescent coating.													
<b>Recommended Use</b>	<p>Firetex FX7000 is designed for site application by airless spray, to provide fire resistance for up to 2 hours on structural steel.</p> <p>After drying for at least 24 hours at 15oc, Firetex FX7000 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.</p>													
<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>	72 ± 4% (ISO 3233:1998)													
<b>V.O.C.</b>	280* grammes/litre *1990 EPA-PG6/23(97) modified Appendix 3. *Calculated from solids by volume determination.													
<b>Typical Thickness</b>	See separate sheets of FX7000 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>1400*</td> <td>350</td> </tr> <tr> <td>Wet</td> <td>1944</td> <td>486</td> </tr> </tbody> </table>			Airless Spray	Brush	Dry	1400*	350	Wet	1944	486			
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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 FX7000 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 FX7000 to be applied.	
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<b>Recommended Primers</b>	Several primers have been fire tested and approved for use under Firetex FX7000. Please consult Leigh's Customer Service Department for detailed information.													
<b>Recommended Thinner</b>	Leigh's Cleanser/Thinner No. 2													



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## Resistance To

Firetex FX7000 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 Topcoats

For certain dry, internal situations where the final colour/appearance is not critical, then Firetex FX7000 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 M71V2 or Envirogard M770 should be used.

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

## Package

A single component material.

Pack Size	20 litre unit
Weight	1.32 kg/litre
Shelf Life	2 years from date of batch manufacture

## Surface Preparation

Firetex FX7000 is designed for use over a suitable 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 FX7000 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 Conditions And Over coating

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.

The material must be protected from moisture during the drying period. Moisture ingress prior to drying may affect the integrity and fire protective properties of the coating.

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.

Firetex FX7000 is capable of withstanding external exposure without topcoat, providing:

- The product if allowed to dry for at least 24n hours at 15oc in dry conditions.
- The substrate temperature is at least 3oc above the dew point at the time of application and during the drying period.

If the specific use or storage could lead to ponding water due to rainfall, condensation, or other site/transportation/storage circumstances, then recommend topcoat must be used to prevent damage to the basecoat



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## **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 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.

### **Maintenance**

Small areas of mechanical damage can be repaired using Firetex M72, FX7000 or FX8000 as preferred.

Larger areas of mechanical damage should be repaired by a recognised Fire Protection Contractor, using Firetex FX7000 or FX8000 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.