

FEATURES

Advantages:

- Rated to protect most structural steel for periods up to 2 hours (120 minute FRR)
- Resists normal weather conditions for up to 12 months without topcoat provided it has been allowed to fully dry prior to exposure.
- Extremely user friendly
- Cost effective fire protection as compared to boards or linings (especially at lower FRR's)
- May be applied to a wide variety of steel sections as well as Galvanising
- To meet the NZ Building Code a Producer Statement can be issued for registered projects. Applicators must pre-register with the Altex Field Technical Manager (email: sales@altexcoatings.com.au)

Approvals:

- Approved by Standards New Zealand - Ref: MP 9 - Fire Properties of Building Materials and Elements of Structure
- Approved by Certifier Pty Ltd for use in Australia Certificate RPL 2 – April 2005
- British **Certifier** approved for protection of steel up to 2 hours FRR
- Compliant to Australian Standard AS1530.4-1997

RECOMMENDED USES

Firetex FX7000 is a specialist third generation thoroughly tested and certified thin film intumescent coating for the protection of steel against structural failure against fire for 2 hours (120 FRR).

Firetex FX7000 is fast drying and designed for site application by airless spray, achieving 2 hour protection to qualifying structural steel in 1 to 4 coats.

- Independently tested and certified by Warrington Fire Research Centre for fire protection of steel requiring certification to BS 476 Part 21:1987 and equivalent standards for periods of 2 hours.
- Meets the specific requirements contained in relevant sections of the NZ Building Code
- Must be sealed with compatible topcoat for long term service

Limitations of Use:

- Do **NOT** apply when air or surface temperatures are below 5°C or RH exceeds 80%
- No more than 2 spray coats or 4 brush coats should be applied in any 24 hour period
- Do not expose to rain or heavy dew without being sealed.

SPECIFICATION DATA

Coating Type:	Solvent Based Intumescent Coating
Colour:	Off White
Packaging:	20 litre
Mix Ratio:	n/a
Gloss:	Flat
Flash Point:	
Thinner:	X-100 Thinner
Pot Life:	n/a
Induction Time:	n/a
Shelf Life:	Store under cool dry conditions

Density:	1.3 kg per litre
VOC:	280g per litre
Temperature Resistance:	
Volume solids:	72 %
Theoretical Coverage Rate:	7.2 sq. metres per litre at 100 microns dry
Recommended Film Thickness Per Coat:	139-1944microns wet to obtain 100-1400 microns dry
Application:	Spray, Brush or Roller
Dry Times (100 µm DFT / 50% RH):	
Recoat – minimum:	5°C 15°C 25°C 30°C
Self	4 hrs 4 hrs 4 hrs
Topcoat	24 hrs 16 hrs 16 hrs
Recoat – maximum:	5°C 15°C 25°C 30°C
Self	n/a n/a n/a

SURFACE PREPARATION

All surfaces to be coated should be clean, dry and free from contamination. Oil or grease should be removed in accordance with AS1627.1 solvent cleaning. Surface defects revealed by the preparation process, should be ground, filled, or treated in the appropriate manner. Clean to remove all grit dust and debris and ensure the surface is dry.

Steel Surfaces:

Abrasive blast to AS1627.4 Class 2 ½ to achieve a uniform blast profile between 38 to 63 microns and be of a jagged nature as opposed to a peen pattern. A lesser degree of cleaning will reduce the service life of the coating. Apply primer coat to the cleaned surface to prevent re-rusting or contamination.

Galvanised Steel Surfaces:

All traces of dichromate passivation must be removed. Sweep abrasive blast with non metallic media or thoroughly sand with synthetic scouring pad to provide a uniform roughened finish.

Suitable Primers:

Firetex FX7000 is designed to be applied to suitably prepared surfaces primed with one of the following compatible primers.

Mild Steel:

Altra-Etch[®], Duroprime HB, Altra-Prime[®] 504

Galvanising:

Altra-Etch[®], Altra-Prime[®] 504

Suitable Topcoats:

For certain dry, internal situations where the final colour/appearance is not critical, then Firetex FX7000 may remain untopcoated.

For other environments one of the following compatible topcoats should be used.

Enamacryl Metallic, Enamacryl Gloss, Hi Glo, Lumbersider, Spacecote, Zylone, Lustercryl.

DIRECTIONS FOR USE

Mixing:

The entire contents of the container must be thoroughly mixed with mechanical agitation to a homogeneous condition prior to application.

Thinning:

Thinning maybe required to assist application. Any solvent addition should be made after the component is thoroughly mixed. Excessive thinning can cause low film thickness and coating defects.

Clean-up:

Use X-100 thinner.

Application:

Firetex FX7000 may be applied by brush, roller up to 375 microns per coat or by airless spray up to 1400 microns per coat. No more than 2 coats by airless spray should be applied within any 24 hour period. If the maximum recommended thickness per coat is exceeded or high film thicknesses are overcoated prematurely, cracking may occur. Suggested spray equipment is:

Airless Spray Graco - 45:1/63:1 pump; Silver gun, 0.021-0.027" RAC IV tip.
Use 3/8" ID fluid lines f 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.

The application of Firetex FX7000 at elevated temperatures may reduce the sag resistance of the product.

It is the responsibility of the applicator to determine what thickness of material can successfully be applied at the prevailing ambient temperature.

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

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

PRECAUTIONS

For industrial use only.

See the Altex Coatings Limited General Safety Data Sheet, product label and Material Safety Data Sheet (MSDS) for health and safety information prior to use.

Firetex FX7000 is flammable. Keep away from heat, sparks and open flame. Use with adequate ventilation.

May cause eye and skin irritation.

Do not breathe vapour or spray.

Wear suitable protective clothing such as gloves and eye and face protection.

ALTEX COATINGS LIMITED

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