

FEATURES

Advantages:

- Specialist economical protection to qualifying structural steel requiring protection from 30 FRR to 120 FRR (½ hour to 2 hours fire rating)
- In house estimation and scheduling service backed by unique fireproofing design software; Leighs **Firetex Design Estimator (FDE)** providing optimised intumescent loadings for all types of structural members including cellular beams
- Firetex FX2003 can resist normal weather conditions for up to 6 months without topcoat provided it has been allowed to fully dry prior to exposure (refer to Application notes overleaf)
- Lower loadings as compared to competitor products
- May be applied to suitably primed mild steel and galvanised sections
- Producer Statements can be issued for registered projects. Applicators should pre-register with the Altex Technical Services

Approvals:

- Certifire Certificate CF5077 – 30 to 120 FRR
- This product has been tested and assessed in accordance with the ASFP fire testing protocol for cellular beam protection. See Section 6.3 from ASFP “Yellow Book” 4th Edition.
- Firetex Design Estimator (FDE) scheduling software assessed & certified by Warringtonfire Certifire; ref: Validation Certificate, VC No. 648

RECOMMENDED USES

Firetex FX2003 is a specialist third generation thoroughly tested and certified thin film intumescent coating for the protection of steel against structural failure against fire for periods up to 2 hours (120 FRR). Firetex FX2003 is fast drying and designed for shop or 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 up to 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 unless in sheltered and dry exposure
- For certain dry, internal situations where the final colour/appearance is not critical, then Firetex FX2003 may remain un-topcoated.

SPECIFICATION DATA

Coating Type:	Solvent-Based Intumescent Coating
Colour:	White,
Packaging:	20 litre - Single component
Gloss:	Flat
Flash Point:	2°C Setaflash
Thinner:	Thinner #10
Storage:	Store under cool, dry conditions; protect from frost

Density:	1.32 kg per litre
VOC:	266g per litre (compliant to EC Solvent Emissions Directive)
Shelf Life:	2 years
Volume Solids (ASTM D2697-91):	75%
Theoretical Coverage Rate:	7.5 sq metres per litre at 100 microns DFT
Recommended Film Thickness Per Coat:	133-1866 microns wet to attain 100-1400 microns dry
Application:	Airless-Spray
Average Dry Times (50% RH; 300 microns DFT):	
	15°C 25°C
Touch Dry	30 mins 20 mins
To Recoat with FX2003	4 hours 4 hours
To Topcoat	24 hours 16 hours
To Handle -	This depends on the total thickness of FX2003, air movement, RH & temperature.
Recoat Schedule Limitations:	No more than 2 spray coats or 4 brush coats should be applied in any 24 hour period.

SURFACE PREPARATION

All surfaces must be sound and free of oil, grease, dirt, loose and flaking paint, moisture and other foreign substances.

It is recommended all mild steel surfaces be abrasive blast cleaned to AS 1627.4 Class 2 (SSPC SP6) and primed with a suitable approved Altex primer such as Carbozinc® 859 EZ2 (1 hour recoat), Carboguard® 504 (6 hours to recoat), or High Build Rust Barrier (overnight recoat). Minimum preparation is power tool clean to SSPC SP3.

Under certain circumstances, it may be possible to apply Firetex FX2003 directly to steel blast cleaned to a minimum standard of AS1627.4 Class 2½ (SSPC SP10) with a coarse surface profile in the range 50-100 microns; consult Altex Coatings Technical Service Department for further details.

Refer to Altex Coatings for other priming systems for mild steel, galvanising, GRP and selected aluminium alloy components.

DIRECTIONS FOR USE

Mixing:

Use mechanical agitation for proper mixing to ensure homogeneous condition. Stir until thoroughly mixed.

Thinning:

Thinning is not normally required or desired; however, if conditions dictate, up to 10% Thinner #10 may be added.

Note: Excessive thinning can cause low film thickness, sagging, extended dry time and other film defects.

Application:

In conditions of high relative humidity good ventilation conditions are essential. Substrate temperature should be minimum 5°C and always at least 3°C above the dew point

At application temperatures below 10°C, drying times will be significantly extended, and spraying characteristics may be impaired.

No more than 2 coats by spray or 4 coats by brush may be applied in any 24 hour period.

Extended overcoating times may be required at low temperatures and/or high film thicknesses.

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.

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

Firetex FX2003 is capable of withstanding external exposure without topcoat providing:

1. The product is allowed to dry for at least 24 hours at 15°C in dry conditions with good air movement and ventilation. These conditions are based on a total dry film thickness of up to 800 microns. The drying time required will be increased if the film thickness is greater than 800 microns.
2. The substrate temperature is at least 3°C above the dew point at the time of application and during the drying period.

Firetex FX2003 may be applied by brush, roller up to 375 microns per coat or by airless spray up to 1250 microns per coat. Airless spray is the preferred method of application.

Suggested spray equipment is:

60:1 Graco King or equivalent. Use 3/8" ID fluid lines where lengths in excess of 3 metres (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 when using tip sizes less than 0.025".

Nozzle Size : 0.021 - 0.027 depending on application requirements.

Fan Angle : 40°

Pressure : 3000 psi

For use on narrow sections the smallest tip recommended is 0.021" (0.53mm) with a 60 mesh pump filter.

Clean-up:

Use Thinner #10.

PRECAUTIONS

For industrial use only. Read and follow all the caution statements on this Product Data Sheet, the product label and the Material Safety Data Sheet (MSDS) for health and safety information prior to use.

Firetex FX2003 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

Head Office
New Zealand
91 - 111 Oropi Road
Greerton, Tauranga
PO Box 142
Tauranga Mail Centre

Phone: +64 7 5411 221
Fax: +64 7 5411 310

www.altexcoatings.com

Head Office
Australia
7 Production Avenue
Molendinar
Queensland 4214
Australia

Phone: +61 7 5512 6600
Fax: +61 7 5512 6697

www.altexcoatings.com

DISCLAIMER

This is not a specification and all of the information is given in good faith. Since conditions of use are beyond the control of the manufacturer, information contained herein is without warranty, implied or otherwise, and final determination of the suitability of any information or material for the use contemplated, the manner of use and whether there is any infringement of patents is the sole responsibility of the user. The manufacturer does not assume any liability in connection with the use of the product relative to coverage, performance or injury. For application in special conditions, consult the manufacturer for detailed recommendations.

It is the users' responsibility to ensure they have the latest product data sheet and Material Safety Data sheet. Check the data sheet date with the listings at www.altexcoatings.com.