



AS3959
COMPLIANT



ACCELERATED
WEATHERING



ISSO 5660
COMPLIANT

FIRESHELL[®]
IGNITION BARRIER TECHNOLOGY



Bushfire Protection Coating

The first exterior grade coating to comply with both the accelerated weathering and fire test components of AS3959 for bush fire resisting timber. Now utilise softwoods and non compliant hardwoods in BAL12.5, BAL19 and BAL29 applications. Easily applied water based low VOC coating. FIRESHELL combines extreme exterior performance with class leading fire resistant technology. FIRESHELL Stops Ignition Stops flame spread



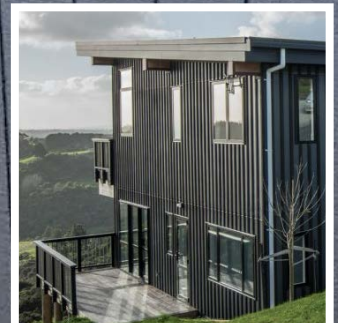
Subfloors, structures and
decking posts



Weatherboards, fascia
and exposed rafters



Simple application post or
pre construction



Tested and approved on
a variety of timbers



FIRESHELL[®]
IGNITION BARRIER TECHNOLOGY



PRODUCT DESCRIPTION

FIRESHELL[®] (F1E) is an exterior rated, 1-part, self-priming, flexible intumescent coating. It provides an ignition and flame spread barrier for external timber. FIRESHELL F1E meets the requirements for bushfire resisting timber specified in AS 3959:2009 Construction of Buildings in Bushfire Prone Areas Appendix F. This includes the accelerated weathering component. FIRESHELL F1E Stops Ignition, Stops Flame Spread.

SOLUTIONS

- Re-classify soft woods and non compliant hardwoods as bush fire resisting timber (AS3959)
- Suitable for BAL12.5, BAL19 and BAL29 applications, meets accelerated weathering
- Risk reduction, asset protection, boundary compliance and combustibility solutions
- Protect timber plastics, carbon fibre, PU foams and composite materials from fire

SPECIFICATION: FIRESHELL F1E

Ignition Barrier Solutions	Product	WFT Total	DFT Total	Coats	Theoretical Spread Rate
AS3959 & ISSO 5660 compliant	F1E	750µm	400µm	Spray: 2 coats @ 375 µm WFT per coat Brush and Roll: 3 coats @ 250 µm per coat	1.6m ² /L @ 750µm WFT
Risk reduction solution	F1E	350µm	200µm	Spray: 1 coat @ 350µm WFT per coat Brush and Roll: 2 coats @ 175 µm per coat	2.6m ² /L @ 350µm WFT

APPLICATION

Surface Preparation: All surfaces must be clean dry and sound prior to application. Any gloss surfaces should be sanded prior to provide a suitable key. If unsure contact EXFIRE.

Mixing: Prior to use, stir the contents of the pail thoroughly for at least 2 minutes using a power mixer, ensuring paint is mixed from bottom to top of the pail. Contents must be uniform at all times during the application process.

Recommended equipment: *Contact EXFIRE regarding airless spray application

Brush: High quality nylon **Roll:** High quality Long nap roller. Can lay off with brush.

Spray: Airless: Graco 1095 or Techspray **Gun:** Graco HD texture gun. **Tips:** 521 - 623

Filters: Can be removed from the gun and machine, pick up mesh can be left as a minimum

Sag resistance: 700 microns WFT on walls and 500 microns WFT on ceilings.

Spraying Temperatures: Min 12°C and rising Max 35°C. Coating to be kept above 16°C
Exfire recommend a maximum of 500microns WFT per coat

Dry times: 4 hours at 25°C and 50% Relative humidity with cross ventilation.

Make sure first coat is completely dry prior to applying any additional coats

Drying conditions: Cross Ventilation always required. Use Dehumidifiers if humidity above 85%. Full cure and hardness reached after 3 weeks.

Clean up: Thoroughly rinse application tools with water before paint is cured. Flush airless spray equipment out with water as soon as work ceases.

Repair: remove any loose coating, sand edges, re-apply to original coating thickness.

TECHNICAL DATA

WATER BASED LOW VOC COATING
NON HAZARDOUS
EXTERIOR GRADE
THINNER/ADDITIVES: Do not thin
COLOURS: Grey, brown
SHEEN: Flat with slight texture
DRUM SIZE: 15L. Custom available for volume orders
STORAGE: Secure dry area, protect from freezing
SHELF LIFE: 12 Months from purchase
MOULD RESISTANCE: Excellent
WASHABILITY: Excellent exterior performance
FLEXIBILITY: Excellent, highly flexible ductile coating

TESTING AND APPROVALS

- AS3959 bushfire resisting timber compliance
- AS3837 group 1 equivalent - external timber
- ISSO 5660 - exterior cladding compliance - timber
- ASTM E 84 - Class A rated on timber
- ASTM D 2898 Accelerated Weathering Compliance
- ASTM D 2486 scrub resistance
- ASTM D 2243 freeze thaw resistance
- ASTM E84 - non combustible coating. Flame:0 Smoke:0
- ASTM E119 Fire resistance closed cell PU foam
- ASTM E119 Fire resistance open cell PU foam
- ICC AC377 approved ignition barrier

GENERAL

Prior to use, stir contents of the pail thoroughly for 2-3 minutes using a powered mixer, ensuring paint is mixed from the bottom to the top of pail and including all sides. All spread rates are approximate and may vary on different surfaces and with different spray techniques. EXFIRE recommend a maximum of 500microns WFT per coat. Always carry out a test area to confirm suitability prior to full application. Confirm with the certifying body for the project that the system will meet the performance requirements prior to project start date. Wet Film Thickness (WFT) should be checked using a WFT Gauge. Top coat can be applied for colour purposes with a thin film water based acrylic only. Allow 7 days prior to top coating the FIRESHELL with a water based acrylic. Custom solutions and job specific specifications available. Always read the full manufactures specification and adhere to application requirements. Contact EXFIRE with any questions.



DISCLAIMER: Any advice, recommendation, information, assistance or service provided by EXFIRE PTY LTD in relation to goods manufactured or distributed by EXFIRE PTY LTD it or their use and application is given in good faith and is believed by to be appropriate and reliable. However, any advice, recommendation, information, assistance or service provided by EXFIRE PTY LTD is provided without liability or responsibility. EXFIRE products and/or systems can be expected to perform as indicated on the manufacturer's specification so long as applications and application procedures of the individual products are followed as recommended on the appropriate Manufacturer's Specification.

AVAILABLE FROM: EXFIRE:

1800 684 001 www.exfire.com.au
Technical Rep Australasia: +61 406 529 920