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

1800 684 001
WWW.EXFIRE.COM.AU
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 resistant 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

<table>
<thead>
<tr>
<th>Ignition Barrier Solutions</th>
<th>Product</th>
<th>WFT Total</th>
<th>DFT Total</th>
<th>Coats</th>
<th>Theoretical Spread Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>AS3959 &amp; ISO 5600 compliant</td>
<td>F1E</td>
<td>750µm</td>
<td>400µm</td>
<td>1.6m²/L @ 750µm WFT</td>
<td></td>
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<tr>
<td>Risk reduction solution</td>
<td>F1E</td>
<td>350µm</td>
<td>200µm</td>
<td>2.6m²/L @ 350µm WFT</td>
<td></td>
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</tbody>
</table>

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
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
- ISO 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 manufacturers specification and adhere to application requirements. Contact EXFIRE with any questions.