



AS3959
COMPLIANT



ACCELERATED
WEATHERING



ISSO 5660
COMPLIANT

FIRESHELL[®]
IGNITION BARRIER TECHNOLOGY



Exterior Fire Protection Coating

A breakthrough in exterior risk reduction and asset protection coating solutions. Simple application LOW VOC water based system. Extreme exterior performance for a range of combustible surfaces. Tested to Australian Standards and designed to last in the harsh Australian environment. **FIRESHELL Stops Ignition Stops flame spread**



Timber bridge, walkway and structure protection



Protect timber hoarding and boxing from ignition



Simple application post or pre construction



Custom solutions for timber, foams, and composites



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PRODUCT DESCRIPTION

A high performance exterior grade water based, fast drying, sprayable coating for use on a variety of combustible surfaces. The intumescent technology when in contact with embers, sparks, radiant heat or direct flame forms a carbon insulating layer that seals off the substrate preventing any chance of ignition or flame spread on the coated surface.

SOLUTIONS

- Risk reduction and Asset protection solutions for cladding, hoarding and boxing
- Bridge and structure protection, create an ignition barrier on the coated surface
- AS3959 Bushfire resisting timber compliance solutions
- Utility pole protection solutions, simple on and offsite sprayable solutions
- Protect timber plastics, carbon fibre, PU foams and composite materials from fire
- ISSO 5660 timber cladding and boundary compliance solutions

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

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

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

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

Application 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, custom available for volume orders
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.



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