

PAINT FR Technical Data Sheet

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Last updated 14 Sept 2020

PFR – TDS 006



Overview

Fire Defender PAINT FR is a colourless liquid that is added to water-based paint to give the paint fire retardant properties. It can be added to most water-based paints including clear paint.

The product has a faint odour during application but no odour when dry.

Forms part of our full weather bushfire compliant system.

Limitations do apply

Physical Properties

Appearance	Viscous Clear Odourless Liquid
Boiling Point	100+ C (water is solvent)
Melting Point	-0 C (water is solvent)
Vapour Pressure	(kpa): 2.3 @ 20° Celsius
Specific Gravity	1.02 to 1.12
Flash Point	Non Combustible
Flammability Limits	Not Applicable
Solubility in Water	Miscible with water

Product Features

- Easy to apply fire retardant.
- Odourless when dry.
- Suitable for most water-based paints
- An Australian product - Australian Made

Intended Application/Use

PAINT FR has been designed as an additive to be used in water-based paints. Originally designed to be used in our All-Weather Bushfire compliant solution which incorporates our Timber Defence product, but can be used in any water-based paint to provide a fire-retardant coating.

Limitations

PAINT FR cannot be used (not compatible) in oil-based paints, spirit-based paints or 2 Pak paints. It should also not be used in metallic paints because PAINT FR will cause corrosion with the metallic pieces in the paint.

Some water based clear polyurethane paints may go slightly cloudy. Please do tests prior to application.

Surface Preparation

Whatever paint you choose to mix PAINT FR with, follow the paint manufacturers surface preparation instructions.

Mixing Instructions

Shake bottle well before use. Mix 80-100ml of PAINT FR with each litre of paint. Mix thoroughly to ensure complete blending.

Application Procedure

Whatever paint you choose to mix PAINT FR with, follow the paint manufacturers application procedure

Cleaning Procedure

After each day's use, all application equipment must be flushed out with clean warm water.

Coverage

Whatever paint you choose to mix PAINT FR with, follow the paint manufacturers guide; refer to their coverage rates. Mixing PAINT FR with any paint will give an addition 8-10% paint volume. An extra coat may be required to meet the manufacturer's specifications.



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Drying Time	Whatever paint you choose to mix PAINT FR with, follow the paint manufacturers guide
Storage & Shelf Life	Whatever paint you choose to mix PAINT FR with, follow the paint manufacturers guide
Safety Recommendations	<p>Ensure Material Safety Data Sheets are read and understood by all users before use. Fire Defender PAINT FR is an aqueous solution of inorganic salts, chemically neutral or slightly alkaline with a pH value of 7-8. While it has very low toxicology, it should be kept out of the reach of children.</p> <p>Will not burn in liquid or solid state. Non-hazardous for transport or storage. No EPG required. Not classified as dangerous. Avoid contact with eyes and skin. Ensure adequate ventilation – vapour may be harmful. Do not breathe vapour/spray. If swallowed, do not induce vomiting. For advice contact poisons information on 13 11 26 (within Australia).</p>
Testing & Results	<p>Fire Defender PAINT FR forms part of an approved BUSHFIRE system which also incorporates our Timber Defence product, and can be used up to BAL29.</p> <p>It has been tested by</p> <ul style="list-style-type: none">• BRANZ, a NATA approved testing laboratory. The approved system meets AS3959.2009 Bushfire standard for full weather exposed use on pine timbers. The system tested also permits the use of this approved system on foot trafficable areas.• This is a clear finish system; if you desire an all-weather solution with a solid colour, add PAINT FR to the solid colour topcoat as well<ul style="list-style-type: none">○ This system requires 2 coats of Timber Defence applied to raw pine○ 3 coats of water base Sikkens Cetol BLX Pro clear paint with 80-100ml of PAINT FR added to each litre of paint. <p>REFER TO OUR BUSHFIRE SYSTEM GUIDE FOR THE CORRECT APPLICATION OF THIS BUSHFIRE COMPLIANT SYSTEM.</p>

Disclaimer

With Fire Defender having no direct control over the end application of the product or alterations to the same, any advice or information is given in good faith, in the belief it is reliable. Fire Defender accepts no responsibility or liability what so ever arising from the use of its products whether or not in accordance with any advice, information, recommendation, specification or service. In commercial situations it is always required that PAINT FR is applied by suitably skilled applicator, and that a certificate of application is obtained from the same. An Applicator Certificate can be download from the Fire Defender website.

