

BUSHFIRE SYSTEM Technical Data Sheet

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BUSHFIRE SYSTEM – TDS 007

<p>Overview</p> <p>Fire Defender's new CLEAR AS3959.2009 full weather compliant bushfire system is a first for Australia and possibly the world.</p> <p>It is approved for use on PINE TIMBER in all areas up to and including BAL29 rated areas.</p> <p>The system is comprised of three components, but the application process is no different to applying a timber sealer and topcoats.</p> <p>The two fire retardant products used in this system have a faint odour during application but no odour when dry.</p> <p>Limitations do apply</p>	<p>Product Features</p> <ul style="list-style-type: none">▪ Easy to apply fire retardant system▪ Full weather bushfire compliant on pine timbers▪ Very cost effective compared to other commercial offerings▪ Smooth finish – no textured or coarse finish▪ Offers a clear finish▪ Offers a foot trafficable finish▪ Can be painted over with solid colours▪ Odourless when dry.▪ An Australian designed system using Australian Made products; not a USA product. <p>PURCHASING THE THREE COMPONENTS</p> <p>TIMBER DEFENCE and PAINT FR can be purchased from the firedefender.com.au website.</p> <p>Water based Sikkens Cetol BLX-Pro timber finish can be purchased from most paint stores. Use this link to find you nearest supplier. https://tenaru.net.au/sikkens/contact/</p>
<p>Intended Application/Use</p>	<p>Fire Defenders Bushfire System is intended to provide an easy to use compliant/approved AS3959.2009 clear bushfire system that can be used on pine timbers in areas up to and including BAL29 rated areas. The aim of our development process was to achieve a clear solution to allow for smooth natural timber finish that could be use anywhere including foot trafficable areas.</p> <ul style="list-style-type: none">• This system requires 2 coats of Timber Defence applied to raw pine• 3 coats of water-based Sikkens Cetol BLX-Pro transparent timber finish with 80-100ml of PAINT FR added to each litre of paint. <p>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 which goes over the Sikkens clear finish.</p>
<p>Limitations</p>	<p>This system is limited to the use on un-painted and unsealed pine timber. It must be applied to raw timber. Although the system can be used on other timber species, the system has not been tested or approved for bushfire use on other timber species.</p> <p>TIMBER DEFENCE can only be used on raw timber.</p> <p>PAINT FR can only be used in water-based paints timber finishes.</p>
<p>Surface Preparation</p>	<p>A clean, unpainted/unsealed surface. If using on timbers with a high oil content e.g. cedar timbers, we recommend using Sikkens Cetol BL Tannin & Oil Remover</p>
<p>Mixing Instructions</p>	<p>TIMBER DEFENCE: When this product arrives in bottles, it will be a blue/green colour. To remove this colour, leave the bottle in full sunlight for a short period of time – only long enough for it to bleach the colour out and leave the product looking yellow in colour. Shake/stir the bottle well before use.</p>



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	<p>Sikkens Cetol BLX-Pro/ PAINT FR: Shake bottle well before use. Mix 80-100ml of PAINT FR with each litre of water based Sikkens Cetol BLX-Pro. Mix thoroughly to ensure complete blending.</p>
Application Procedure	<p>TIMBER DEFENCE: Brush, Spray and Roller Applications</p> <p>Product may slightly darken the appearance of some timbers. A trial application is recommended. Fire Defender Timber Defence can be applied with a good quality brush, roller or by spray.</p> <ul style="list-style-type: none">• Apply two liberal (2) coats to achieve maximum penetration. Apply 2nd coat immediately after first coat has absorbed into the timber. This will depend on how dry the timber is, or hot or cold weather and/or where the work is being done e.g. indoors or outdoors.• This is a wet on wet application. Apply small areas at a time 2-4sq metres depending on absorption rate. Timber Defence also seals the timber so it is important the second coat goes on while the first coat is wet. <p>Do not apply Fire Defender Timber Defence if relative humidity is above 80%, rain is imminent or the temperature is below 10° or above 30° during the application or drying periods.</p> <p>SIKKENS CETOL BLX-Pro: Please follow the application instructions provided by the manufacturer.</p> <p>https://tenaru.net.au/sikkens/wp-content/uploads/2014/07/CETOL-BLX-PRO.pdf</p>
Cleaning Procedure	<p>After each day's use, all application equipment must be flushed out with clean warm water.</p>
Coverage	<p>TIMBER DEFENCE: will give you approximately 4sq metres of coverage per litre – that's 2 coats on; finished. To calculate quantity required, divide the surface area to be treated by 4 to work out how many litres required.</p> <p>Sikkens Cetol BLX-Pro: The manufacturer states approximately 15sq metres per litre however, three coats are required, therefore true coverage rate is around 5sq metres per litre. To calculate the quantity of paint required, divide the surface area to be painted by 5. Keep in mind that when you add the PAINT FR to the paint, you will be increasing your paint volume by 8-10%.</p>
Drying Time	<p>TIMBER DEFENCE: is not a paint; it's a penetrating product designed to soak into the timber therefore, it requires a much longer time to dry and cure prior to top coating. In warmer months we recommend a drying time of at least 48 hours – cooler months may require 72-96 hours.</p> <p>Drying times must be managed. Applying a clear top coat prior to Timber Defence completely curing will cause the clear paint to go cloudy.</p> <p>Sikkens Cetol BLX-Pro: Drying time at 20°C/65% relative humidity.</p> <ul style="list-style-type: none">• Dust dry: after approx. 20 minutes• Tack free: after approx. 2 hours• Recoatable: after approx. 2 hours
Storage & Shelf Life	<p>TIMBER DEFENCE & PAINT FR: Twenty-Four (24) months in a full, airtight container. Store in a cool, dry location away from sunlight.</p>



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Safety Recommendations

Ensure Safety Data Sheets are read and understood by all users before use.

TIMBER DEFENCE SDS: http://www.firedefender.com.au/pdf/MSDS_Timber_Defence.pdf

PAINT FR SDS: <http://www.firedefender.com.au/pdf/PAINT-FR.pdf>

Sikkens Cetol BLX-Pro: <https://tenaru.net.au/sikkens/wp-content/uploads/2020/07/SDS-SI-Cetol-BLX-PRO-Tenaru.pdf>

Testing & Results

Fire Defender TIMBER DEFENCE and PAINT FR forms part of an approved BUSHFIRE system which also incorporates the use of Sikkens Cetol BLX-Pro, and can be used in bushfire zones up to and including BAL29.

It has been tested by

- 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.
- All test reports, datasheets and SDS documents are available to read or download from our website. <http://www.firedefender.com.au/test-reports-datasheets>

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 this system 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.

