



EnviroMax® Bifenthrin 100SC Water-based Termiticide & Insecticide



APVMA Approval Number: 63649



High Quality Packs.

Consistent Quality Results in Better Performance!

UNIQUE FEATURES

- More uniform particle size distribution.
- More consistent active content.
- Less persistent foam, < 20mL 1 minute after mixing.
- EnviroMax® Technologies develop, test and manufacture all SC formulations in accordance with ISO9001 and GMP.
- Binds strongly to treated soil – Australia's most persistent termiticide (please see label).

COMPETITIVE BENEFITS

- No sedimentation or blocked Nozzles.
- Better Bifenthrin coverage when applying.
- Product remains suspended for longer.
- Consistent Quality of Products is our guarantee.



The choice for termites, crawling and flying insects
– quality assured performance!

Summary of Application Situations and Rates

PEST	SITUATION	STATE	RATE	CRITICAL COMMENTS
Spiders	Internal & external areas & surrounds of domestic, commercial, public & industrial buildings and structures.	All States	25-50mL/10L	Use the higher rate in situation where pest pressure is high, when rapid knockdown and/or maximum residual protection is desired. Pay particular attention to protected dark areas such as cracks and crevices, under floors, eaves and other known hiding or resting places. For overall band surface spray, apply as a coarse, low pressure surface spray to areas where spiders hide, frequent and rest. Spray to the point of run-off using around 5 L of spray mixtures per 100 m ² and ensuring thorough coverage of the treated surfaces. For crack and crevice treatment use an appropriate solid stream nozzle. For maximum spider control use a two part treatment. 1. Crack and crevice. 2. Overall band spray of surfaces.
Papernest Wasps	Internal & external areas & surrounds of domestic, commercial, public & industrial buildings and structures.	All States	50mL/10L	Apply prepared solution to the point of run-off directly to the papernest ensuring thorough and even coverage. When all adult wasps have been knocked-down the nest may be safely removed from the structure.
Ants (excluding Red imported Fire Ants), cockroaches, mosquitoes, fleas, flies, ticks (excluding the paralysis tick <i>Ixodes holocyclus</i>) (Adults & Nymphs)	Internal & external area & surrounds of domestic, commercial, public & industrial buildings and structures.	All States	50-100 mL/10 L	Use the higher rate in situations where pest pressure is high, when rapid knockdown and/or maximum residual protection is desired. The lower rate may be used for follow-up treatments. For indoor use, pay particular attention to protected dark areas such as cracks & crevasses, behind or under sinks, stoves and refrigerators, furniture, pipes, cornices, skirting boards and other known hiding or resting places. DO NOT use a surface spray. On non-porous surfaces apply as a coarse spray at the rate of 1 L solution per 20 m ² . When treating non-porous surfaces do not exceed the point of run-off. On porous surfaces or use through power equipment, spray at the rate of 1 L of solution per 10 m ² . When treating porous surfaces do not exceed the point of run-off. Ants: To control ants apply to trails and nests. Repeat as necessary. Fleas and Ticks: To control fleas and ticks apply prepared solution to outside surfaces of buildings and surrounds including but not limited to foundations, verandahs, window frames, eaves, patios, garages, pet housing, soil, turf, trunks or woody ornamentals or other areas where pests congregate or have been seen. Flies and Mosquitoes: To control flies and mosquitoes apply prepared solution to surfaces where insects rest or harbour. Reapply as necessary. Perimeter treatments: Apply the prepared solution to a band of soil or vegetation two to three metres wide around and adjacent to the structure. Also treat the foundation of the structure to a height of approximately one metre. Use a spray volume of 5 to 10 L per 100 m ² . Higher volumes of water may be needed if organic matter is present or foliage is dense.
Subterranean Termites	Domestic, public, commercial & industrial areas.	All States, except Tas	Refer to Table A.	Refer to Table B.

TABLE A: EnviroMax[®] Bifenthrin 100SC Water-Based Termiticide & Insecticide use rates for management of SUBTERRANEAN TERMITES

SITUATION	ALL AREAS SOUTH OF THE TROPIC OF CAPRICORN (EXCEPT TAS)		ALL AREAS NORTH OF THE TROPIC OF CAPRICORN	
	RATE	EXPECTED PROTECTION PERIOD*	RATE	EXPECTED PROTECTION PERIOD*
Pre-Construction Barriers Under slabs and under suspended floors with less than 400 mm crawl space.	1L/100L	At least 10 years	1.5L/100 L	5 years
	500mL/100 L	10 years	1L/100 L **	4 years
Perimeter Barriers For new and existing buildings.	1L/100L	At least 10 years	750mL/100 L **	3 years
	500mL/100 L	10 years	500mL/100 L **	2 years
	250mL/100 L	3 years	1.5L/100 L	5 years
Post-Construction Barriers Under slabs and under suspended floors with less than 400 mm crawl space.	1L/100L	At least 10 years	1L/100 L	4 years
	500mL/100 L	10 years	750mL/100 L	3 years
			500mL/100 L	2 years
Reticulation Systems Perimeter and/or service penetration treatment only.	1L/100 L	At least 10 years	1.5L/100 L	5 years
	500mL/100 L	10 years	1L/100 L	4 years
	250mL/100 L	3 years	750mL/100 L	3 years
Reticulation Systems Cavity infill & footing barriers.			500mL/100 L	2 years
	500mL/100 L	5 years	1L/100 L	2 years
Protection of Poles & Fence Posts.			1.5L/100 L	5 years
	500mL/100 L	10 years	1L/100 L	4 years
			750mL/100 L	3 years
Nest Eradication.	500mL/100 L	Not applicable	500mL/100 L	Not applicable

* Several factors contribute to the estimated length of protection provided for each termite treatment. The actual protection period will depend on the termite hazard, climate, soil conditions and rate of termiticide used. The need for retreatment is to be determined as a result of at least an annual inspection, or more frequently in high risk areas, by a qualified licensed Pest Control Operator.

** This rate must be used in conjunction with a certified reticulation system that is capable of distributing the Termiticide & Insecticide solution according to the product label and the Australian Standard AS 3660 Series.

TABLE B: CRITICAL COMMENTS for use against SUBTERRANEAN TERMITES

SITUATION	CRITICAL COMMENTS
Pre-Construction Barriers Under slabs for protection of new buildings *,**	<ul style="list-style-type: none"> Apply with suitable application equipment to form a complete and continuous chemical barrier (both vertical and horizontal) under the slab. The formation of the barrier may require a combination of conventional open wand application and soil trenching and/or rodding applications. Recommended rod spacing should be between 150 and 300 mm, as per soil type. For additional information refer to "CRITICAL APPLICATION DETAILS" on this label and the Australian Standard AS 3660 Series.
Pre-Construction Barriers Under suspended floors *, **	<ul style="list-style-type: none"> For areas under suspended floors with restricted access (typically with less than 400 mm clearance), the entire subfloor area should be treated as a continuous horizontal barrier, which completely abuts an internal vertical barrier (if necessary) around any substructure wall. Ideally, this operation should be done during construction of the building while access is more readily available. For areas beneath suspended floors which have adequate access (eg. more than 400 mm clearance), install perimeter barriers around each individual pier, stump, service penetration and substructure wall.
Perimeter Barriers For new and existing buildings **	<ul style="list-style-type: none"> Perimeter barriers (both horizontal and vertical, external and where required, internal and sub-floor) are an essential part of termite protection and must be installed at the completion of the building. Perimeter barriers should be installed around slabs, piers, substructure walls and external penetrations points. Apply with suitable application equipment to form a continuous chemical barrier (both vertical and horizontal) around the structure and to a depth reaching 80 mm below the top of the footings, where appropriate. The formation of the barrier may require a combination of several application techniques, including soil trenching and/or rodding and open wand applications.
Post-Construction Barrier Treatments For the protection of existing buildings **	<ul style="list-style-type: none"> Apply with suitable application equipment to form a complete and continuous barrier (both horizontal & vertical) around and under the buildings and structures as in accordance with AS3660 with particular emphasis on any known infestation areas. To form the chemical barrier a number of application techniques may be needed including soil rodding; trenching; open wand and sub-slab injections. Chemical barriers beneath concrete will require drilling. Recommended drill hole spacing is between 150 mm and 300 mm. To enhance chemical distribution, use a lateral dispersion tip on the injector and deliver up to 10 L of emulsion per linear metre. Drill holes should be no more than 150mm from foundation walls or expansion joints to ensure complete formation of a chemical barrier. For areas under suspended floors with restricted access (typically with less than 400 mm clearance), the entire subfloor area should be treated as a continuous horizontal barrier, which completely abuts an internal vertical barrier (if necessary) around any substructure wall. Otherwise, install perimeter barriers around each individual pier, stump, penetration point and structure wall.
Reticulation Systems Perimeter and/or service penetration treatment only.	<ul style="list-style-type: none"> EnviroMax® Bifenthrin 100SC Water-Based Termiticide & Insecticide must be used through a certified reticulation system to form and replenish perimeter barriers around buildings and service penetrations. The system must be installed according to the manufacturer's specifications and be capable of distributing the termiticide emulsion according to the product label and the Australian Standard AS 3660 Series. Perimeter barriers consist of a horizontal barrier abutting a vertical barrier, which must reach down to the top of the footing. Delivery pipes must be placed in such a position to ensure that the requirements for both horizontal and vertical barriers as specified in the Australian Standard AS 3660 Series are met. Special attention must also be afforded to the positioning of the delivery pipes to ensure that the resultant termiticidal barriers are continuous and complete. Apply the prepared termiticide emulsion by pumping through the system according to the manufacturer's specifications. Use a minimum delivery volume of 100 L of emulsion per m³ of soil. This equates to a delivery volume of 5 L of emulsion per linear metre for a vertical barrier 300 mm x 150 mm in dimension. Pre-Construction – For use in conjunction with full soil treatment horizontal barriers only: Apply the diluted emulsion through the perimeter reticulation system as specified above. Follow instructions for Pre-Construction horizontal barrier formation.
Reticulation Systems Cavity infill & footing barriers.	<ul style="list-style-type: none"> EnviroMax® Bifenthrin 100SC Water-Based Termiticide & Insecticide must be used through a certified reticulation system to form and replenish cavity infill and footing barriers. The system must be installed according to the manufacturer's specifications and be capable of distributing the termiticide solution according to the product label and the Australian Standard AS 3660 Series. Delivery pipes must be placed in such a position to ensure that the requirements for both horizontal and vertical barriers as specified in the Australian Standard AS 3660 Series are met. Special attention must also be afforded to the positioning of the delivery pipes to ensure that the resultant termiticidal barriers are continuous and complete. Apply the prepared termiticide solution by pumping through the system according to the manufacturer's specifications with delivery volume of 2 L of solution per linear metre of delivery pipe. Note: where this system is to be installed at the pre-construction stage, a full under slab pre-construction barrier, applied by either open wand application or suitably certified reticulation system, is also recommended. The recommended rate of application is 2 L of solution per linear metre which equates to 2 L of solution per 0.0068 m³ or approximately 7 L of sand. Should the volume of fill in the wall cavity deviate from 7 L (0.17 m x 0.04 m x 1 m = 0.0068 m³) per linear metre of wall cavity, then the amount of EnviroMax® Bifenthrin 100SC Water-Based Termiticide & Insecticide solution applied per linear metre of wall cavity should be adjusted accordingly. As a guide, the target bifenthrin loading of treated sand/soil in a cavity infill situation is 110 mg/kg South of the Tropic of Capricorn and 220 mg/kg North of the Tropic of Capricorn. To facilitate more even distribution of EnviroMax® Bifenthrin 100SC Water-Based Termiticide & Insecticide solution in the wall cavity, ensure that the fill is evenly compacted at the time of installation. To further enhance distribution saturation of the sand/soil in the infill is recommended at the time of treatment.
Protection of Service Poles & Fence Posts.	<ul style="list-style-type: none"> Create a continuous termiticide barrier 450 mm deep and 150 mm wide around the pole or post by soil injection or rodding. For new poles and posts, treat backfill and the bottom of the hole. Use 100 L of solution per m³ of soil. Regular inspections should be undertaken to determine when and if treatment is necessary. If disturbance of the barrier has occurred, retreatment of the area affected will be required. Posts and poles may also be drilled and injected with spray solution. Note: For existing poles and posts, it is impractical to treat the full depth and underneath of such poles and posts and therefore the possibility of future termite attack from below the treated area cannot be ruled out.
Eradication of Termite Nest.	<ul style="list-style-type: none"> Locate nest and flood with insecticide solution. Trees, poles, posts and stumps containing nests may require drilling prior to treatment with termiticide solution. The purpose of drilling is to ensure the termiticide solution is distributed throughout the entire nest. Drill holes in live trees should be sealed with an appropriate caulking compound after injection.

Notes to Critical Comments:

* An external perimeter barrier (both horizontal and vertical) is an essential part of termite protection and must be installed at the completion of the building. Refer to "Perimeter Barriers" in this LEAFLET, for further details.

** Chemical barriers that have been disturbed by construction, excavation and/or landscaping activities will need to be reapplied to restore continuity of the barrier.

Note: The termiticide barrier provided by this product has a finite life. This together with the recommendation to undertake annual inspection must be stated on the durable notice required by the BCA, B1.3 (j) (ii).

Note: This table is for reference only. When using EnviroMax® Bifenthrin 100SC Water-based Termiticide & Insecticide please refer to the registered label.

Product Specifications - Physical Properties

EnviroMax® Bifenthrin 100SC Water-Based Termiticide & Insecticide specifications are narrower when compared to the international standard specifications.

Specification	FAO/WHO/International Standard Specification for Aqueous Suspension Concentrates	Bifenthrin 100SC Result Batch No #9001
* Active Ingredient [g / L]	90-110	99
* Appearance	Suspension	Milky white suspension
* pH	Acidic or Alkaline	6.4
* Density @ 30 C [Kg / Lt]	1.02-1.04	1.04
Suspensibility	60-105 %	103 %
Spontaneity of dispersion	60-105 %	95 %
Wet Sieve test	Max 2 % retained on a 75 micron sieve	0.004 %
Persistent Foam	Max 60 mL foam after 1 minute	2.5 mL
* Particle size 50 % distribution	50 % of particles < 2.5 microns	50 % of particles < 0.70 microns
* Particle size 90 % distribution	90 % of particles < 7.5 microns	90 % of particles < 5.10 microns
Pourability test	Maximum residue <= 5%	3.7 %
Viscosity	Not set	290 cps

* Tested with each batch and supplied as part of the Certificate of Analysis (COA).

Best Practices when using EnviroMax® Bifenthrin 100SC

Dilute with Water Only

EnviroMax® Bifenthrin 100SC Termiticide & Insecticide is an aqueous suspension concentrate containing 100grams Bifenthrin per litre. The suspension is only intended for dilution in water (for optimal performance use tap water < 342ppm hardness) .

Test the Surface First

EnviroMax® Bifenthrin 100SC Termiticide & Insecticide may be sprayed on any surface that will not be stained by water. The diluted suspension is a milky liquid that will remain visible when applied to the surface. If you are concerned about staining or are unsure if the surface is water safe, test the surface by spraying a small amount in an inconspicuous area before making a broad application.

Mixing Tips

Shake EnviroMax® Bifenthrin 100SC Termiticide & Insecticide bottle well prior to mixing. Clean spray equipment before using or diluting EnviroMax® Bifenthrin 100SC Termiticide & Insecticide. For dilution, add half the required water to spray tank, then add the appropriate amount of EnviroMax® Bifenthrin 100SC Termiticide & Insecticide. Agitate the mixture, and then slowly add the remainder of the water. Agitate the spray thoroughly before using. AVOID storing unused diluted product overnight, for re-use. Ensure spray equipment in particular spray tips are cleaned after use daily.

EnviroMax® Quality Assurance

	Quality Assurance	Accountability
Formulation testing	2 year storage stability tests. Cold storage stability tests. 2 & 24 hour dilution stability tests.	All product formulations have been thoroughly tested to ensure that we are 100% confident that every formulation is consistent with the product developed and tested in the lab and in the field.
Efficacy Testing	Trials against Termites, and crawling and flying insects.	All products have been tested and evaluated to ensure optimal efficacy, safety and performance. EnviroMax® has 4 years of EnviroMax® Bifenthrin 100SC Termiticide & Insecticide Field Trial support data.
Quality Control	COA for Technical material. COA for each Product Batch. GC/HPLC analysis for each batch. Batch samples retained for 2 years.	All products supplied are guaranteed to meet international QC standards. Technical ingredients are traceable for every batch supplied. Support data can be requested for every batch supplied.
Certification		EnviroMax® controls the processes of development, product registration, testing, formulating, filling and packaging, so you can be assured that all products supplied are of consistent quality.

Active Constituent: Bifenthrin 100g/L or 10% W/V

Inert ingredients: Suspending agents and water approximately 90%

Formulation Type: Aqueous Suspension Concentrate (SC)

Pesticide Group: Synthetic Pyrethroid Group 3A Insecticide

Insecticide Mode of Action: Sodium channel modulator

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