Product Name: Biofilm Termite Barrier Systems

APVMA Approval No: 81353 / 118994

RLP APPROVED

DISPLAYED BY INFOPEST

Label Name:	Biofilm Termite Barrier Systems
Signal Headings:	READ SAFETY DIRECTIONS
Constituent Statements:	1 g/kg BIFENTHRIN
Mode of Action:	GROUP 3A INSECTICIDE
Statement of Claims:	For the protection of structures from concealed termite entry
Net Contents:	50mm - 6m Width x 50m Length 1-1000 pre-formed pipe penetrations
Restraints:	DO NOT use for remedial treatment of pre-existing termite damage
Directions for Use:	This section contains file attachment.
Other Limitations:	RESTRICTED CHEMICAL PRODUCT - ONLY TO BE SUPPLIED OR USED BY AN AUTHORISED PERSON
Withholding Periods:	
Trade Advice:	
General Instructions:	This section contains file attachment.

Resistance Warning:	For insecticide resistance management Biofilm is a Group 3A insecticide. Some naturally occurring insect biotypes resistant to Biofilm and other Group 3A insecticides may exist through normal genetic variability in any insect population. The resistant individuals can eventually dominate the insect population if Biofilm or other Group 3A insecticides are used repeatedly. The effectiveness of Biofilm on resistant individuals could be significantly reduced. Since occurrence of resistant individuals is difficult to detect prior to use, PC Plastics Pty Ltd accepts no liability for any losses that may result from the failure of Biofilm to control resistant insects. Biofilm may be subject to specific resistance management strategies. For further information contact your local supplier or local agricultural department agronomist.

Precautions:	

Protections:	Protection of Wildlife, Fish, Crustacean and the Environment Do not contaminate dams, rivers, streams, waterways or drains with product or the used container. Do not use as a fishpond liner. Protection of Pets and Livestock Before applying, remove animals and pets from the areas to be treated.

Storage and Disposal:	Store in closed original packaging, in a cool, well-ventilated area away from children, animals, food and feedstuffs. Do not store for prolonged periods in direct sunlight. Do NOT allow product to enter sewers, drains, creeks or any other waterways. When installing Biofilm it is likely there will be some off-cut material. Wherever possible use these off-cuts for patches, repairs, etc. If pieces cannot be used they may be placed within the cavity. If this is not possible, Biofilm off-cuts should be placed in a sealed plastic bag and disposed of via an approved industrial waste disposal site.

Safety Directions:	Avoid contact with skin. When using the product wear cotton overalls buttoned to the neck and wrist or equivalent clothing and elbow-length chemical resistant gloves. Wash hands after use. After each days use, wash gloves and contaminated clothing.

First Aid Instructions:	If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 13 11 26.

First Aid Warnings:	

Text appearing above this line does not form part of the label

Biofilm Termite Barrier Systems
DIRECTIONS FOR USE (All states except Tas)
Restraints:
DO NOT use for remedial treatment of pre-existing termite damage

Pest	Situations	Rate	Critical Comments
Subterranean termites	Domestic, commercial, and industrial structures to form a complete perimeter pre-construction treatment providing both termite and moisture protection or as a flexible termite management system that they may be used as part of an integrated termite management system.	Single sheet thickness is sufficient to form an effective termite and moisture barrier.	Biofilm Termite Barrier Systems must be installed as a complete and continuous barrier. Any gaps, punctures, or tears present in the sheet after installation must be repaired as per the instructions in the general use directions. For jointing sheets, attaching sheets to surfaces and treatment of penetrations, see general instructions section below. For specific details on installation of sheet for perimeter treatments, see general instructions below.

NOT TO BE USED FOR ANY PURPOSE, OR IN ANY MANNER, CONTRARY TO THIS LABEL UNLESS AUTHORISED UNDER APPROPRIATE LEGISLATION.

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General Instructions
Product information
Biofilm is a professional termite management system for new structures and extensions to existing structures. The purpose of Biofilm is to deter concealed entry by subterranean termites from the soil into a structure above the termite barrier as per AS3660.1. Biofilm is not designed as a remedial treatment for existing termite damage.

Biofilm contain an active ingredient that is dispersed fully throughout the plastic sheeting. This means that there is no top or bottom to the sheet – it may be installed equally effectively no matter which side is up.

Biofilm is to be used for perimeter application in combination with a concrete slab acting as physical termite barrier, and/or in combination with other termite management systems as per AS3660.1. When used in combination with a concrete slab acting as a physical barrier, the slab must be poured in accordance with AS2870.1 Residential slabs and footings recommendations.

Critical application details
The installing Critical application Biofilm must be in accordance with Australian Standard AS3660.1 recommendations.

Pre-Installation
Prior to installing Biofilm, it is recommended that a site inspection is performed and the following precautions are carried out. Elimination of any active nest of economically important wood feeding species of subterranean termite (as per AS3660.1) found within the property boundary up to a distance of 50m from the proposed new building work. All tree stumps, logs, and roots, shall be excavated and removed from the building footprint. All timber off-cuts, building debris, removable framework and other waste materials shall be removed from the area where the Biofilm is to be installed. All structural material below the ground should be made from termite resistant material such as masonry, concrete, steel etc.

Joining sheet
In almost all use situations Biofilm is held in place by construction materials as the structure is built. In such cases adhesives or bonding agents used to join sheets are required until these construction components are installed. In situations where construction materials do not exert pressure on sheet overlaps such as perimeter cavities a permanent bond must be created. Such a bond can be made by high strength construction adhesives or heat-sealing using a portable heat sealer.

Biofilm sheeting can be joined using a heat sealer, an appropriate adhesive, or bonding agent. Appropriate adhesives are those designed by the manufacturer to provide a construction grade impervious bond between the two plastic sheets, allowing the system to meet Australian Standard 3660. Termite Management with respect to providing a barrier to subterranean termites. If unsure of the suitability of the adhesive to be used contact the adhesive manufacturer for technical support. Ensure that a minimum of 200mm overlap is achieved when joining.

Repairing Tears or Gaps
If the plastic sheeting is ripped or torn it must be repaired by applying a single sheet piece of sufficient size to fully cover the gap or tear plus a minimum overlap of 200 mm. The repair sheet is to be bonded onto the tear/gap as detailed above in Joining Sheets.

Perimeter treatment
In-fill Slab
Secure the plastic sheeting to the outer edge of the brickwork and fold the sheet over the top of the brickwork securing it to the internal brickwork towards the footings. Ensure that prior to the slab being poured that the sheet is securely held in place using an appropriate adhesive or bonding agent designed by the manufacturer to provide a construction grade bond between the sheet and the material it is being bonded to. If a separate damp proof course material is being used it is installed above the Biofilm level.

Rebated slab edge
Biofilm should be installed before the timber frame has been raised. Attach one edge of the sheet to the slab to ensure the frame bottom plate will be placed on top of the sheet using an appropriate adhesive or bonding agent. The second edge is fixed to the upper surface of the brickwork with the outside leading edge being visible in the damp proof course (DPC) horizontal mortar joint using an appropriate adhesive or bonding agent designed by the manufacturer to provide a construction grade bond between the sheet and the material it is being bonded to. Any excess Biofilm sheet is installed into the cavity.

Corners
Corners must be carefully installed ensuring finished comer is smooth and sheeting is continuous. Make slits from the edge of the sheet into the corner of the slab to allow folding of the sheet around the corner. At a corner two sheets must be joined and sealed using an appropriate adhesive or bonding agent designed by the manufacturer to provide a construction grade bond between the sheet and the material it is being bonded to with a minimum of 200mm overlap.

Service Penetrations
Vertical penetrations in the perimeter
When installing Biofilm as a perimeter application, service penetrations must be protected. To construct a Biofilm penetration collar each penetration requires 2 patches of Biofilm (minimum size 300mm x 300mm). Make a crosswise slit in one of the patches and pull it tightly down over the penetration. Using an appropriate adhesive or bonding agent designed by the manufacturer to provide a construction grade bond between the sheet and the material it is being bonded to, adhere the patch to the Biofilm sheet and then wrap the patch around the penetration and adhere the two together. Using the second patch make a crosswise slit and pull the patch over the penetration down onto the first patch. Again use an appropriate adhesive or bonding agent designed by the manufacturer to provide a construction grade bond between the sheet and the material it is being bonded to, attach the patch to the Biofilm sheet and the penetration. Adhere the edges of the patches to the moisture membrane. Ensure there are no gaps between the square Biofilm patches and the penetration.

Multiple penetrations in the perimeter
Clusters of penetrations in close proximity are termed multiple penetrations or cluster penetrations. Treat each penetration separately ensuring a minimum of 100 mm Biofilm sheet extends from each penetration and the Biofilm sheet is overlapping between each of the penetrations. Ensure a double layer of Biofilm sheet, as described in the vertical penetrations directions above, protects each penetration.

Service Requirements:
Biofilm contains an insecticide, which will both kill and repel termites that come into contact with it.

The objective of Biofilm is to prevent concealed access from subterranean termites. Termites can still crawl around the barrier, but if this occurs, a visual mud trail (often referred to as a tunnel or lead) will be evident and regular inspections will identify this.

Regular competent inspection is recommended as part of an ongoing termite management program. Service requirements are to be determined as a result of at least an annual inspection by a licensed Pest Control Operator. More frequent inspections may be required in high-risk termite areas. In determining the need for service, factors such as local termite pressure, breaches of the barrier and termiticide longevity should be considered.

Subterranean termites are on occasions capable of bridging termite barriers and therefore regular inspections, as detailed in the Australian Standard AS 4349.3, will significantly increase the probability of detection of termite activity before any damage or costly repairs are required.