ADAMA

Tekko® Pro

Insect Growth Regulator

Australia's first dual active insect growth regulator provides the most effective tool in pest control.

Simply. Grow. Together.

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Scan here for all the latest information and resources for Tekko® Pro

For more information visit: **adama.com**

For Customer Enquiries: **1800 4 ADAMA**

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Tekko® Pro Insect Growth Regulator

Product overview

Insect growth regulators (IGRs) have played an important role in pest control for many years. These products have always been one of two types of IGR. The first type is the Juvenile Hormone Analogue (JHA), which prevents insect larvae from developing into adults. The second type is the Chitin Synthesis Inhibitor (CSI), which prevents or reduces the production of chitin in insect larvae, causing them to moult with an incomplete exoskeleton and die.

Tekko Pro® takes professional pest control to the next level by combining both types of IGR in the one product. Tekko Pro contains (1) pyriproxyfen, which is a Juvenile Hormone Analogue; and (2) novaluron, which is a Chitin Synthesis Inhibitor. Pyriproxyfen is more effective against insects that have a complete metamorphosis. That is, they go through distinctly different life stages: egg, larvae of increasing size, pupa then adult. Being a juvenile hormone analogue, pyriproxyfen acts on the larval stage and prevents the larvae from pupating to adults. The larvae may survive but, as larvae, in the case of fleas, do no significant harm, the pest is effectively controlled.

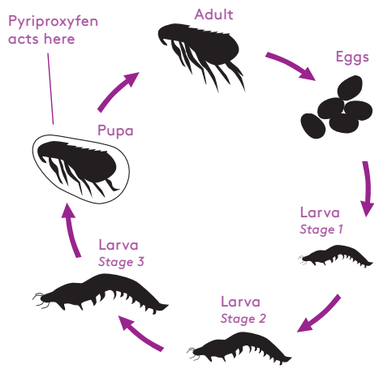


Figure 1: Life-cycle of a flea showing where pyriproxyfen works.

Novaluron is especially effective against insects that have a gradual metamorphosis. That is, they go through gradual changes after hatching from eggs to become nymphs which moult through various stages to become adults after a set number of instars (life stages). As a chitin synthesis inhibitor, novaluron acts to prevent the production of a new chitin layer resulting in the death of the nymph when it attempts to moult to the next instar.

This is especially effective against pests such as cockroaches which die on moulting.

Combining the two active ingredients means that Tekko Pro is the right choice for control of developing insects no matter the situation. This combination of actives creates a synergistic effect which results in early nymph control and death.

Tekko Pro Insect Growth Regulator is registered for use against immature cockroachesa and flea larvae.

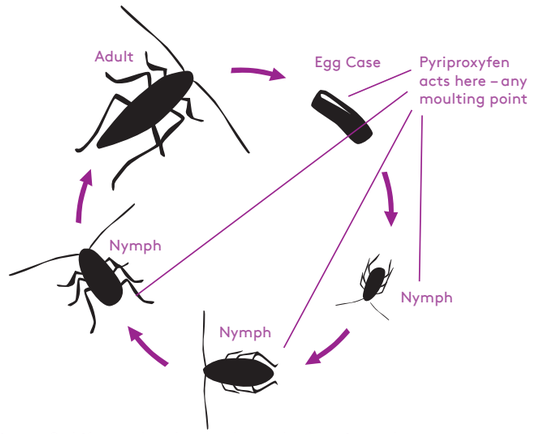


Figure 2: Life-cycle of a cockroach showing where novaluron works.

Inhibits re-infestation of fleas for up to seven months

- For use on furniture, carpets, kennels
- Can be used indoors and outdoors.

While Tekko Pro can be used as a stand-alone spray application it may be used as a tank-mix with a knockdown insecticide. If used only as a residual spray without an active pest population then Tekko Pro as a stand-alone would be ideal. However, there is usually a base population of adult insects which will not be directly affected by Tekko Pro, being a larvicide. Recommended products for tank-mixing would include most synthetic pyrethroid sprays along with some of the non-repellent products.

Tekko Pro application rates and pests controlled

Situation	Rate	Pest	Critical Comments
Domestic, commercial, industrial and public buildings: - including food processing establishments, shops, factories, ships, offices, schools, storerooms, hospitals, barracks, private houses and external areas associated with such establishments.	6 mL /10 m^2 or 8-15 mL/L of water		Use the higher dilution rate for difficult conditions i.e. porous surfaces or for longer residual control.
		Flea Larvae	Thoroughly spray all infested areas. It is recommended that premises are vacuumed and contents of vacuum bag removed before treatment takes place. This is particularly important where adult fleas are present. Ensure pets are treated with a suitable registered insecticide to avoid re-infestation of the treated premises. Exterior Use: Prewetting the soil with a garden hose may be required on very dry soil.
		Immature Cockroaches	When treating for cockroaches apply thoroughly to cracks, crevices and other places where cockroaches may hide and breed. Apply to point of run-off.

Label extract – refer to label for full directions

Where to apply Tekko Pro

For fleas – all areas where fleas breed such as carpet, rugs and especially pet bedding. The gaps between wooden floorboards may also harbour flea larvae and should be treated. Areas where pets rest outdoors should also be sprayed.

For cockroaches – crack and crevice treatment of kitchens and other wet areas. Perimeter treatments of houses, usually best in a tank-mix.

Why use Tekko Pro?

- Low hazard – insect specific
- Excellent safety/toxicological profile
- Targets developing insects
- Different chemical group from knockdown or residual sprays to help manage/reduce resistance risk
- Dual active ingredients to target fleas and cockroaches at their most vulnerable stages
- Long lasting effect
- Boost residual sprays using Tekko Pro as a tank mix.

How to use Tekko Pro

Prior to application calibrate the sprayer to ensure correct spray rates are achieved.

Internal spraying: use a flat fan nozzle, producing a fine spray pattern.

External spraying: use a medium/coarse flat-fan nozzle for regular flat surfaces or a variable-cone/cone-jet for general situations

[Label:] Apply 4 L of spray solution per 100 m^2 as a coarse spray using hand held or knapsack sprayers.

Tekko Pro is formulated as an emulsifiable concentrate containing 12 g/L pyriproxyfen and 12 g/L novaluron.

Apply at either 8 or 15 mL of Tekko Pro per litre. Use the higher rate in tougher conditions or on porous surfaces which can absorb active ingredients. Use the lower rate for maintenance or tank mixes.

Tekko Pro is available in 1 L containers from the following pest distributor.

Who is ADAMA?

ADAMA is relatively new to the Australian pest control market but has a long history of innovation and development of unique products. ADAMA is working to develop a leading range of quality pest control products for Australian pest managers. Ask for ADAMA products at your local pest control distributor.