

Compel Pro

Broad spectrum insecticide

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GROUP

3A

INSECTICIDE

Active ingredients 100g/L bifenthrin

Pack size 5L, 20L

Compel Pro is a unique water-based formulation containing 100g/L of the active ingredient bifenthrin, a reliable and trusted broad spectrum insecticide. It is registered for the control of lepidopteran pests such as lawn armyworm and sod webworm and adult stages of coleopteran pests including Argentine stem weevil, billbug and African black beetle in all recreational turf situations.

Compel Pro is also registered for the control of several ant species including black ant, coastal brown ant, funnel ant, meat ant, sugar ant and stinging ants in turf situations.

Features of Compel Pro

- Improved water-based suspension formulation free from solvents
- Low odour and staining potential due to no solvents present in formulation
- Greatly improved plant safety, ideal for use on fine cut turf surfaces such as golf and bowling greens
- Economical form of insect control
- Extremely broad spectrum over a wide range of pest species
- Excellent UV stability – enhances residual performance
- Contains an in-built surfactant – no additional adjuvant is required
- Good tank mix flexibility – suitable for mixing with a range of other plant protection products

Compel Pro mode of action

Bifenthrin, the active ingredient in Compel Pro, kills insect pests by interfering with the normal functions of the nervous system. Bifenthrin interferes with the sodium channel gating mechanism that underlies the generation and conduction of nerve impulses through the insect's body. Causing an electrical imbalance, Compel Pro throws the whole nervous system into spasm, ultimately leading to paralysis and death of the susceptible insect pest. Compel Pro is a class 3A insecticide, and belongs to the synthetic pyrethroid group of insecticide chemistries. Compel works via contact activity on the target insect and is not systemic within the plant.

Compel Pro formulation

As a suspension concentrate formulation of bifenthrin, Compel Pro possesses no harsh solvents like alternative EC formulations. The result is a product that is safer to use on turf and ornamental plants, has a lower odour and reduced staining potential on timber and concrete surfaces. This makes Compel Pro the ideal formulation for use around buildings, traffic areas and rights of way.

Compel Pro application information

Compel Pro Insecticide is applied at a rate of 1.2-4.4L/ha (12-44mL/100m²) in turf situations, depending upon the target insect. For application in turf, it is recommended that Compel Pro be applied in a minimum of 200L of water per hectare with a medium sized droplet to obtain an even coverage over the turf surface. For soil borne insects, 4mm of irrigation may be required to place the active ingredient into the rootzone. Apply after mowing to minimise loss of insecticide in clippings.

Residual activity

Compel Pro has excellent UV stability unlike many other synthetic pyrethroids. As a result, Compel can provide extended residual activity in turf for up to 8 weeks.

In-built surfactant

Compel Pro contains an in-built surfactant, reducing the need for additional adjuvant. The in-built surfactant enhances active ingredient coverage over the leaf surface, maximising the potential to contact the target insect.

Tank mixing flexibility

Compel Pro is suitable for combining with a number of plant protection products. This includes, but is not limited to mancozeb, chlorothalonil, pendimethalin, metolachlor, metribuzin and pendimethalin.

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For more information on **Compel Pro**, contact your local Globe Growing Solutions Territory Manager
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APPLICATION RATE TABLE

Crop	Situation	Rate	Critical Comments
Turf	Lawn armyworm (<i>Spodoptera maurita</i>) Sod Webworm (<i>Heptetogramma licarsisalis</i>)	1.2L/ha (12 mL/100m ²)	Mix Compel Pro Insecticide in water and apply evenly over the area to be treated using spray application equipment. Use a minimum total volume of at least 200 L/ha (2 L/100m ²). To ensure optimum control, irrigate the treated area with up to 4 mm of water soon after application. Inspect treated areas for continuing activity. Reapply as required. Where a rate range is indicated use lower rates under lower insect pressure and higher rates under higher insect pressure. Apply after mowing to minimise loss of insecticide in clippings.
	Argentine stem weevil adults (<i>Listronotus bonariensis</i>)	1.2-2.4 L/ha (12-24 mL/100m ²)	
	African black beetle adults (<i>Heteronychus arator</i>)	2.5-3.6 L/ha (25-36 mL/100m ²)	
	Billbug adults (<i>Sphenophorus brunnipennis</i>)	1.2-2.43 L/ha (12-24 mL/100m ²)	
	Black ant, coastal brown ant, funnel ant, meat ant, sugar ant and stinging ant only	1.2 - 4.4 L/ha (12-44 mL/100m ²)	
Ornamentals including Roses and carnations	Two spotted mite (<i>Tetranychus urticae</i>)	30 or 40 mL/100L	Apply at first sign of pest infestation and before pest populations build up to damaging levels. Repeat as necessary on 10-14 day interval. Best results are obtained from preventative rather than curative applications. Where indicated, use the higher dosage for knockdown of established pest infestations or when longer residual activity is required. Spray to run-off using a spray volume of 1000-1500 L/ha. Apply at first sign of pest infestation and before pest populations build up to damaging levels. Repeat as necessary on 10-14 day interval. Best results are obtained from preventative rather than curative applications. Spray to run-off using a spray volume of 10-15 litres per 100 square metres covering both leaf surfaces. Apply at first sign of pest activity and repeat at intervals of 7-10 days while pest pressure persists. More than three sprays may be required to control an existing infestation. Spray to run-off covering both leaf surfaces. Use the higher rate when pest pressure is high, when conditions favour pest development or when increased residual protection is required. Apply at first sign of pest activity and repeat at intervals of 7-10 days while pest pressure persists. Spray to run-off covering both leaf surfaces. Apply at first sign of pest activity and repeat at intervals of 7-10 days while pest pressure persists. Ensure that flowers and buds are sprayed. Spray to run-off. When buds are opening rapidly and pest pressure is high reducing the spray interval to 3-4 days will give better results. Monitor the population by regular inspection. Spray evenly over the area to be treated. After application apply approximately 5 mm of sprinkler irrigation. Apply as a drench at the rate of 2 litres of prepared spray per square metre of pot area.
	Aphids	20 mL/100L	
	Caterpillars and loopers including <i>Heliothis</i> (corn ear worm, native budworm), <i>Helicoverpa spp.</i> , light brown apple moth (<i>Epiphyas postvittana</i>), geranium plume moth (<i>Sphenarches anisodactylus</i>)	20 mL/100L	
	Whitefly (<i>Trialeurodes vaporariorum</i>), pointsettia white fly (<i>Bemisia tabaci Biotype B</i>)	20-80 mL/100L	
	Mealy bug (<i>Pseudococcus longispinus</i>)	20 mL/100L	
	Plague thrips (<i>Thrips imagines, T. simplex and T. hawaiiensis</i>)	20 mL/100L	
	Cutworm (<i>Agrotis spp.</i>) in beds, containers and pots	1.2 L/ha (12 mL/100m ²)	
		20 mL/100L	

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