

# CONTROL OF MEALYBUG IN GRAPES WITH SAMURAI® SYSTEMIC INSECTICIDE



## How to get the best results with SAMURAI® as a soil application

**SAMURAI®**  
SYSTEMIC INSECTICIDE

SITUATION	PEST	RATE	CRITICAL COMMENTS
Table and wine grapes	Long-tailed mealybug	<p><b>Soil application:</b> 800 g per hectare of vineyard.</p> <p>This is equivalent to applying 26 g of Samurai per 100 m of vine row at an average row spacing of 3.3 m.</p> <p>This is the rate that should be applied when calibrating for band spraying.</p>	<p>1. <b>For application through a micro-irrigation system.</b> Determine the area in hectares of vineyard to be treated. Multiply this by 800 g and add this amount of Samurai to the chemigation tank for injection into the irrigation system. e.g. 5 ha vineyard block x 800 g/ha = 4000 g (4 kg) to be added to the chemigation injecting tank.</p> <p>Run the irrigation system for approximately 30 minutes and ensure the water has reached all parts of the block and wet the soil. Apply the required amount of Samurai through the irrigation system. Continue to run the irrigation system to ensure thorough wetting of the soil profile down to at least 10 cm depth. For mini-sprinklers with high application rates this may take 1 - 2 hours. For dripper systems this may take 4 - 8 hours. The soil in the irrigation zone should be free of weeds and heavy debris.</p> <p>2. <b>For application by band spraying.</b> Do not apply by band spraying unless under vine sprinklers are present that can ensure thorough wetting after application.</p> <p>Apply by spraying the chemical at the standard herbicide rate of 400 L water per sprayed hectare on to the soil in a band 0.7 m wide centred on the row. Add Samurai to the spray tank at the correct rate so that 26 g of product is applied per 100 m of vine row. The soil in this zone must be free of weeds and heavy debris. The chemical must then be incorporated within 24 hours with 10 - 25 mm of irrigation. This should wet the whole band sprayed area.</p> <p>NOTE: Good uptake depends on getting the chemical in to the root zone and the plants actively growing. <b>Application should therefore be between budburst and 80% capfall.</b></p> <p><b>DO NOT APPLY AFTER 80% CAPFALL.</b></p> <p>Follow up irrigation is important to assist with root uptake. The soil should always be moist at rooting depth. Some mealybug may reach the bunches and these may need to be controlled with a foliar spray from a different chemical group.</p>

**WITHHOLDING PERIODS: NOT REQUIRED WHEN USED AS DIRECTED.**



*"It is best to think of Samurai soil application as the foundation of the Mealybug control program in grapes. While it may not completely eradicate Mealybug, it serves to keep pest numbers low so that fewer foliar sprays are required."*

*"Recent commercial experience has confirmed that when applied correctly at the start of the season, Samurai tends to keep Mealybug numbers low up to bunch closure."*



SUMITOMO CHEMICAL

**Now registered for application through micro-irrigation systems, in addition to band spraying. The following are best practice when applying Samurai through the micro-irrigation:**

- Application through the dripper should only be considered if the soil surface around and directly underneath the drippers is free of weeds and has minimal trash.
- When applying Samurai at the start of the season, best timing is when root activity commences in the spring.
- Carefully calibrate the mixing tank and injector unit to deliver 800 grams of Samurai per ha, regardless of row spacing.
- Irrigate for at least 30 minutes (when the soil is wet) or one hour (when the soil is dry) before injecting the Samurai concentrate into the irrigation system. This practice also serves to flush fertiliser remaining from previous fertigation out of the irrigation system.
- Continue to run the irrigation system to ensure thorough wetting of the soil profile down to at least 10 cm depth. For mini-sprinklers with high application rates this may take 1 - 2 hours. For dripper systems this may take 4 - 8 hours.
- No adjuvant is required when applying Samurai through the drippers.
- Do not mix any fertilisers into the mixing tank when applying Samurai.
- Soil-applied Samurai will not completely eradicate Mealybug. It serves to reduce the population and to keep numbers low so that fewer foliar sprays are required.

**SAMURAI**<sup>®</sup>  
**SYSTEMIC INSECTICIDE**



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