

PRACTICALITY AND EFFICIENCY OF INSECTICIDE IMIDACLOPRID 21% + BETACYFLUTHRIN 10.5% TO CONTROL *LOXOSCELES INTERMEDIA* (ARANEAE, SICARIIDAE)

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Arachnids are successful groups with a lifestyle based on predation, especially insects. The spiders have a body divided in two segments, the cephalothorax and abdomen, have four pairs of legs, chelicerae and pedipalps. The *Loxosceles* spiders occur throughout the world, in Brazil were recorded eight species, four present in the state of Parana, where *L. intermedia* prevails with 90% of records. Are specific to the *L. intermedia*, average size of 1.6 cm, few hair body and reddish-brown color. With one year of life, they reach sexual maturity and reproduce during the warmer months of the year, it may deposit an average of 20 eggs per oviposition in which young spiders hatch in 46 days. Tame behavior, biting only when pressed against the body. Although the sting is very superficial, their venom is proteolytic and hemolytic and can produce skin or visceral reactions and sometimes causing death. Nocturnal, living under bricks and tiles stacked, stones, tree trunks, cracking walls, and are also common in residential areas. The test to control brown spider *L. intermedia* was held at the Center for Research and Innovation Bayer Paulínia, São Paulo, Brazil in May 2010. The experiment used was randomized, with two treatments: untreated and Temprid® SC (Imidacloprid 21% and 10.5% Betacyfluthrin) at a dose of 4 mL of commercial product per liter of water. The application was made on smooth tile surfaces, using a spray gun with a CO2 pressure of 40 lb nozzle array 8002 using a flow rate of 50 ml of mixture per square meter. For each treatment were used 10 spiders that were exposed on treated surface for 30 minutes and after the exposure period were removed and kept in a contamination free environment where were evaluated the percentage of effectiveness 24 hours after exposure to treated surfaces. With the obtained results during the test was concluded that in 24 hours after exposure of *L. intermedia* treated tile with Imidacloprid 21% + betacyfluthrin 10.5% dose of 4 ml/L and flow rate of 50 mL/m² showed 90% of efficacy could be recommended to control the mentioned pest.

Key words Arachnids, brown spider, urban pest, environment control, Temprid® SC.

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