

Need to Know

- Straight talk for professionals about pests and pest control products

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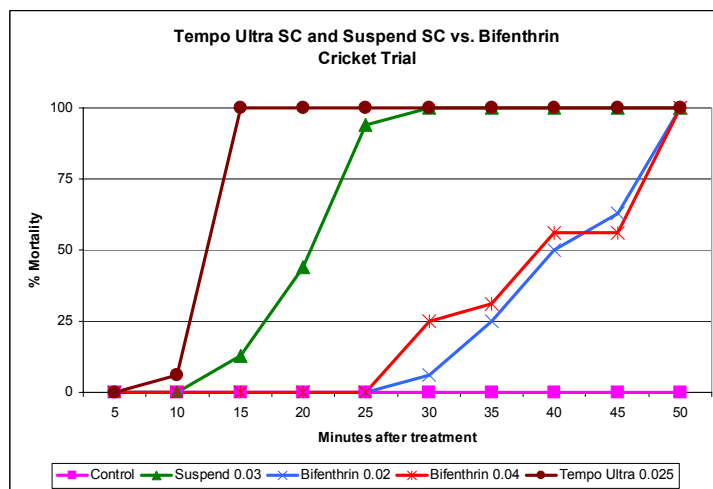
Speed of Kill: How Fast Are They? How Important Is It? A Direct Comparison of Tempo® Ultra SC and Suspend® SC vs. Bifenthrin against Crickets

Speed of kill is an important factor in perimeter treatments for general insect control because many pests will not remain on treated surfaces for long periods of time. Thus, the quicker a product kills the pest the better suited it is for a perimeter treatment.

There are many pyrethroid products available to our PMP customers. Which one can provide the speed of kill they need in perimeter treatments? A cricket efficacy study was conducted at Bayer Environmental Science to answer that question. The study used three pyrethroids products: Tempo® Ultra SC (β -cyfluthrin), Suspend® SC (deltamethrin) and bifenthrin.

Clear plastic cups were treated with: 0.025% Tempo Ultra SC, 0.03% Suspend SC, 0.02 and 0.04% bifenthrin. Once surfaces were dry, crickets were introduced into the cups and mortality was checked every 5 minutes.

Crickets were used as a test insect because they are a common household pest that PMPs deal with in perimeter treatments.



The results show that Tempo Ultra SC provided 100% mortality in 15 minutes while Suspend SC killed all the crickets in 25 minutes.

In contrast, bifenthrin required 50 minutes before causing complete mortality in the crickets. It should also be noted that doubling the concentration of bifenthrin did not improve speed of kill!

Conclusion

Test results clearly demonstrate the superior speed of kill of Tempo® Ultra SC and Suspend® SC when compared to bifenthrin. Bayer branded products killed crickets twice as fast!

Contributed by Dr. John Paige III

