

PRECISION

DELIVERY SYSTEM

Featuring Taurus® Dry - Dry Flowable Termiticide

**Doxem® Precise - Research Summary - Dr. Michael K. Rust –
University of California , Riverside, Riverside, CA**

OBJECTIVES

CSI entomologists had several goals:

1. Determine if Taurus® Dry was repellent to drywood termites
2. Determine the toxicity of Taurus® Dry to drywood termites

This information was used to support Taurus® Dry as a dry flowable termite control product.

AVOIDANCE TEST - LABORATORY STUDY TAURUS DRY

An avoidance and efficacy study were conducted in a choice arena.

METHODS FOR COMPLETING THE TEST

Insect used in the test: Western drywood termites (*Incisitermes minor*)

This was a choice test conducted by routing a "+" shape into a square of Douglas fir. The piece of wood was then sandwiched between pieces of plexiglass. One half of one arm of the "+" was then treated with either Taurus® Dry or Termidor® Dry. The treatment was kept from contaminating the rest of the arena by placing a piece of cotton in the arena. The control arenas received no treatment. Once the applications were made, the cotton was removed, and the arena was sealed. Termites were introduced to one of the untreated arms of the "+" arenas by a small hole drilled into the plexiglass.

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EFFICACY RESULTS

Neither the Taurus® Dry nor the Termidor® Dry showed any repellency to the termites.

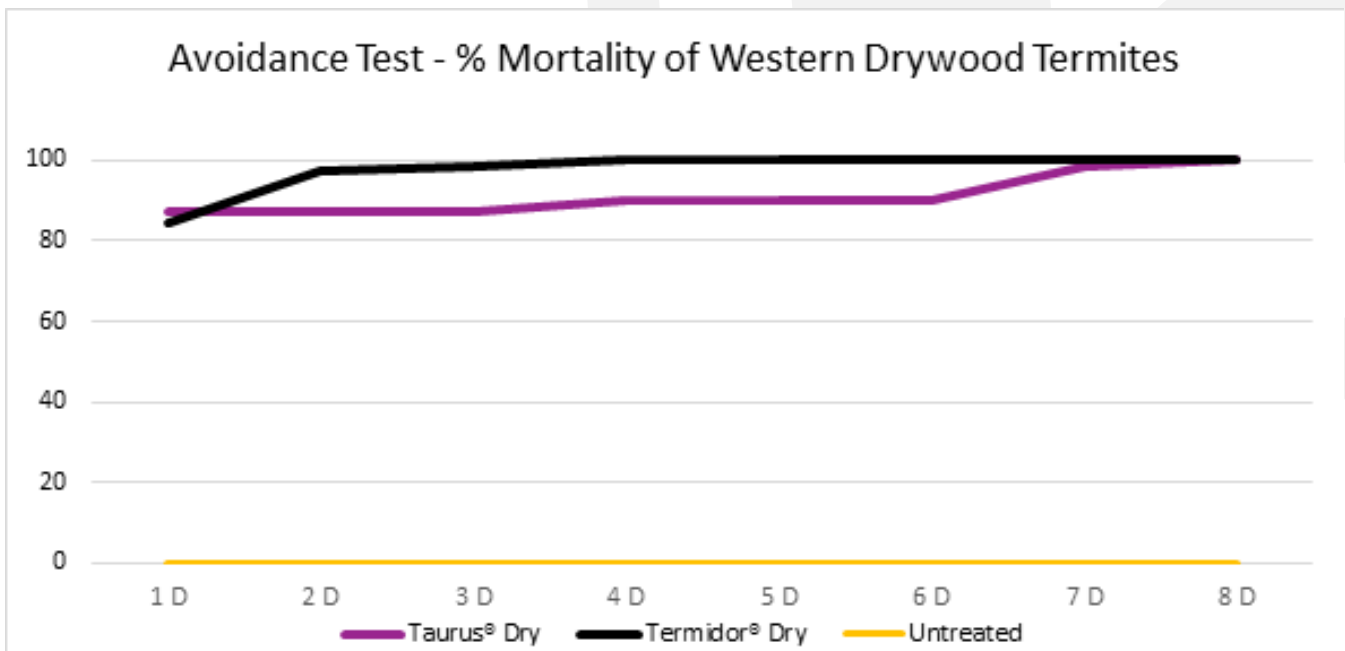
Taurus® Dry provided slightly slower kill, but all termites were dead by 8 days after treatment. Control replications behaved normally and began to feed and construct galleries within 24 hours of introduction into the arenas.

Table 1. Cumulative mortality (%) of drywood termites exposed to a treatment in a "+" choice arena.

% Mortality at hour								
PRODUCT TESTED	1 D	2 D	3 D	4 D	5 D	6 D	7 D	8 D
Taurus® Dry	87.1	87.1	87.1	90	90	90	98.6	100
Termidor® Dry	84.3	97.1	98.6	100	100	100	100	100
Untreated	0	0	0	0	0	0	0	0

Termidor is a registered trademark of BASF Corporation.

Graph 1. Cumulative mortality (%) of drywood termites exposed to a treatment in a "+" choice arena.



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Figure 1. Construction of the arenas. In 1a the cotton is keeping the application of dust to the bottom half of the "arm". In 1b, the cotton has been removed and pen marks show the outermost spread of Taurus Dry before addition of termites. Photos courtesy of Dr. Michael Rust, University of California, Riverside.

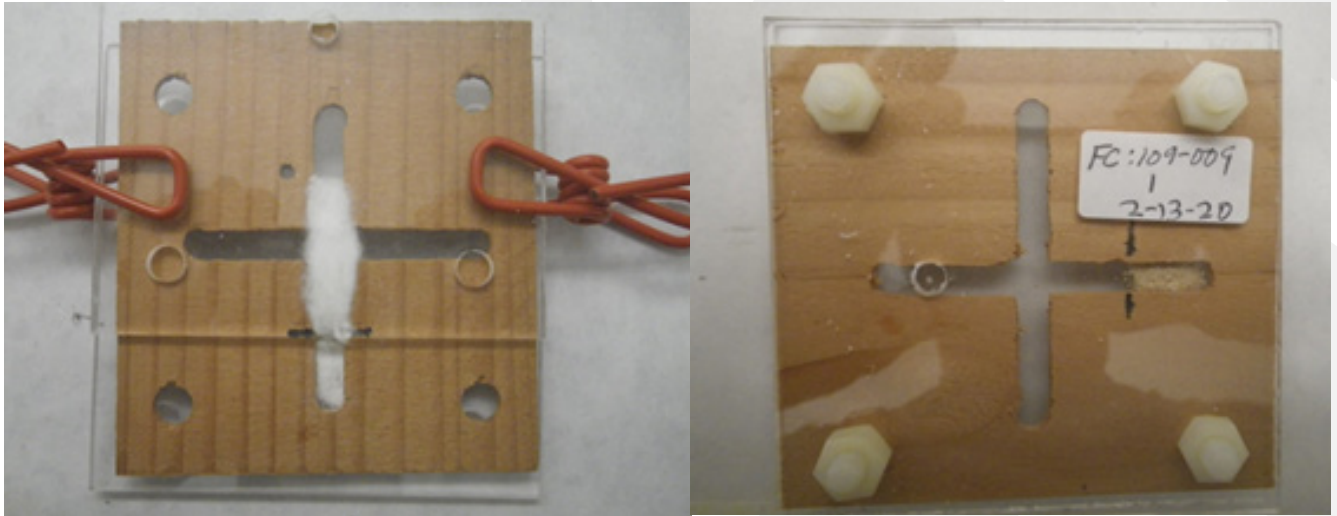
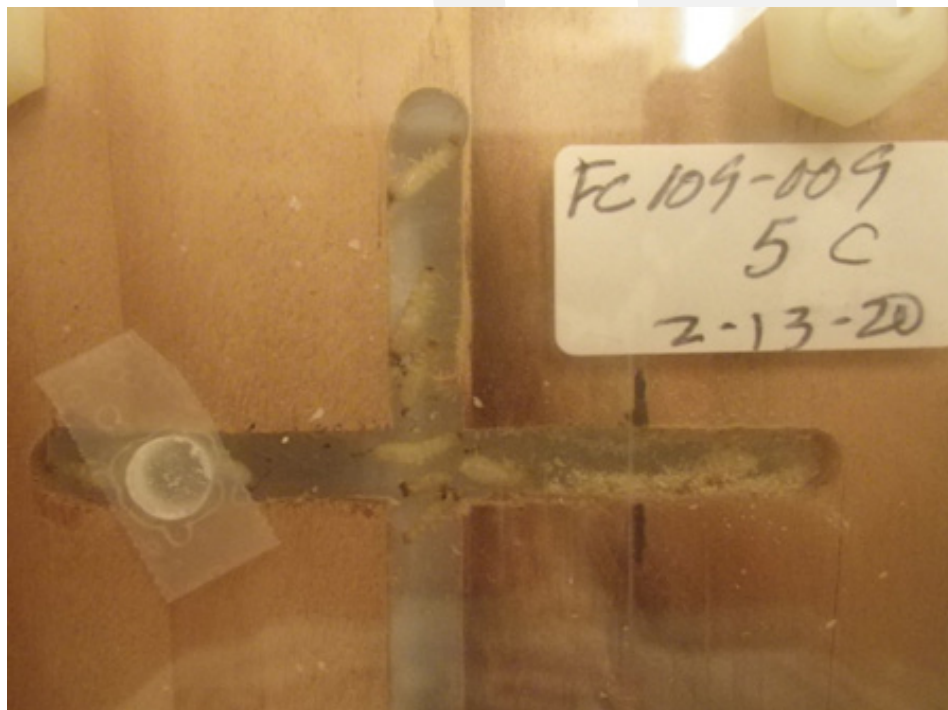


Figure 2. Arenas after introduction of termites. Note the termites interacted with the Taurus Dry and moved it around in the "+" arena. This further indicates non-repellency. Photo courtesy of Dr. Michael Rust, University of California, Riverside.



Precision Delivery System featuring Taurus® Dry

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CONCLUSIONS

1. Taurus Dry is non-repellent to drywood termites
2. Taurus Dry is slightly slower than Termidor® Dry at killing drywood termites
3. Significant control (>85%) of drywood termites occurred within 24 hours of exposure to Taurus Dry



Reach Termites
at their
Source with the

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