



Control
Solutions Inc.
PRODUCTION ANIMAL

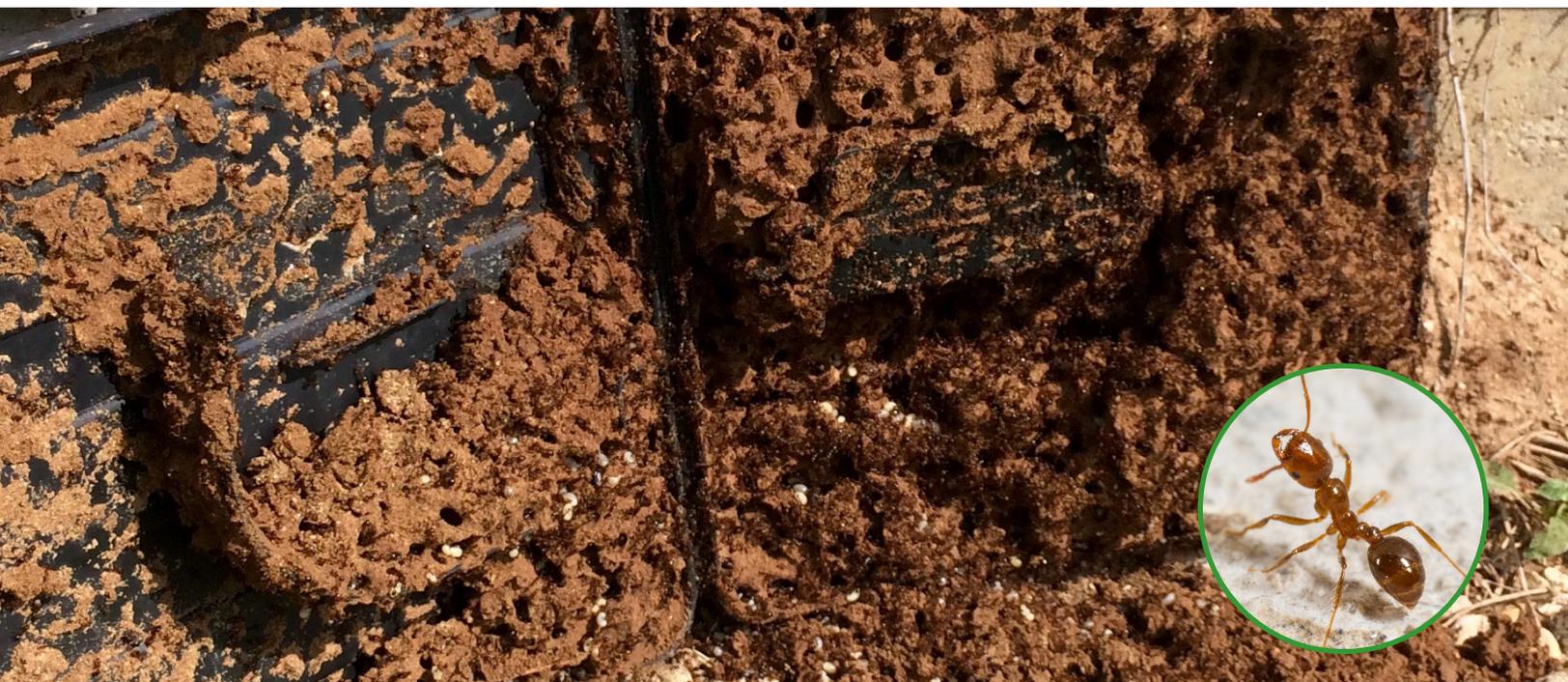
Exterior Barn Treatments for Animal Production

WITH TAURUS[®] SC

www.csiproductionanimal.com

CSI PRODUCTION ANIMAL

EVERYTHING YOU NEED TO KNOW ABOUT HOW TO USE TAURUS SC AROUND PRODUCTION ANIMAL STRUCTURES.



INTRODUCTION

This ebook contains comprehensive information to effectively using Taurus SC around production animal structures.

WHAT IS TAURUS SC?

Taurus SC is a powerful insecticide containing the active ingredient, fipronil. Fipronil is a neurotoxin belonging to the phenylpyrazole insecticide class. It works as a GABA-gated chloride channel blocker, leading to hyperexcitation of muscles,

paralysis, and death of the insect.

PRODUCT FORMULATION

Taurus SC is a suspension concentrate (SC) where a solid active ingredient is dispersed in water, resulting in a white, milky formulation. It is available in 20 oz, 78 oz, and 2.5-gallon bottles.

MODE OF ACTION

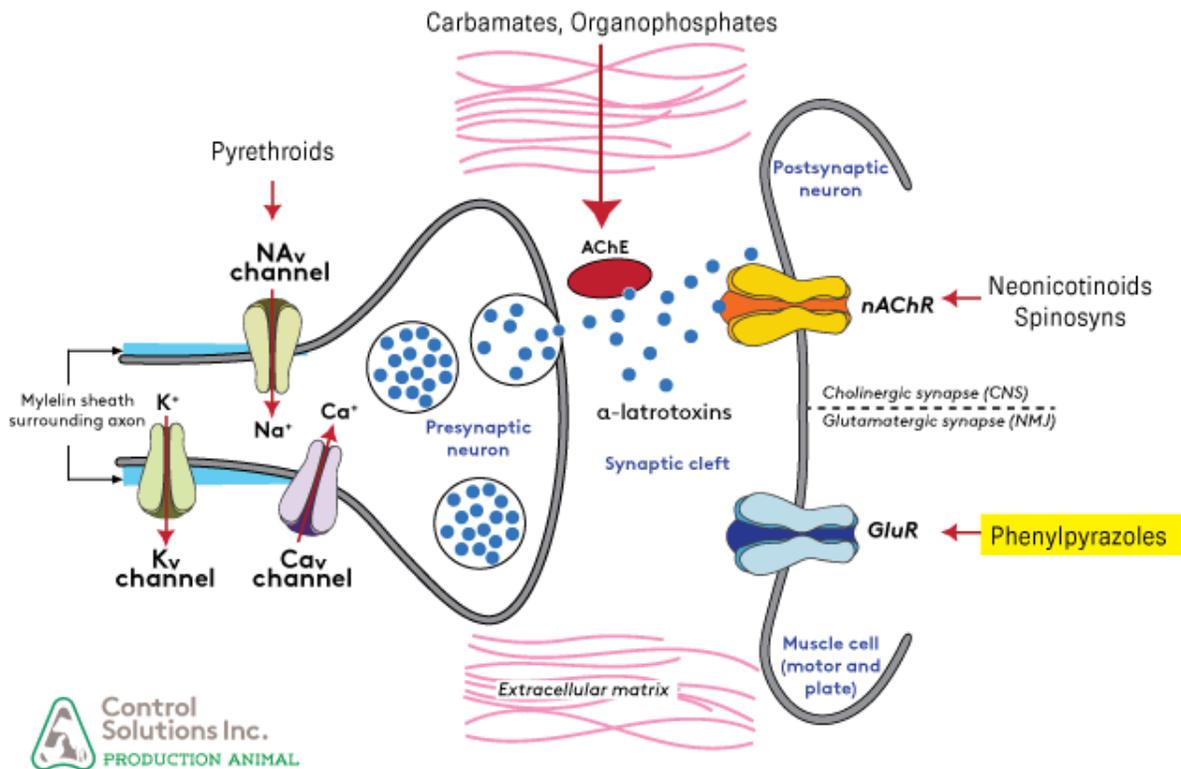
Fipronil blocks the inhibitory neurotransmitter GABA, preventing it from

stopping signals transmitted to the glutamate receptor. This results in hyper-excitation, paralysis, and death of the insect.

APPLICATION SITES

Taurus SC can only be applied to the **exterior** of commercial and industrial buildings, including animal production facilities. It can be used pre- and post-construction to slabs and injected as a foam into wall voids.

FIPRONIL: Mode of Action



EXTERIOR APPLICATIONS

APPLICATION TECHNIQUES

When applying Taurus SC, use a coarse spray or large droplet size. The application rate is 0.8 oz/gal of water, covering 1,000 ft² with 1.5 gallons of solution. Apply Taurus SC 1 foot up and 1 foot out from the foundation and 18 inches around any openings.

CALCULATION EXAMPLE

20,000 ft² Barn

Sq. Ft. Rounded Total:

Total is 5,160 ft², accounting for other openings
5,500 ft²

Water Needed:

5,500 / 1,000 x 1.5 gallons =
8.25 gallons

Taurus SC Needed:

8.25 gallons x 0.8 oz/gal =
6.6 oz



EXPECTED RESULTS

Expect to see dead beetles around the exterior foundation within 1-2 weeks post-treatment.

FOAMING APPLICATIONS

Foaming Taurus SC into wall voids can target hidden beetles and protect the insecticide from the harsh environment inside poultry barns. This application requires a foaming agent like ProFoam Platinum.

CALCULATION FOR FOAM APPLICATION

For a 40 x 500 ft² broiler barn, treat the bottom 2 ft of wall voids:

Side Walls: 2 ft x 500 ft x 2 wall surfaces x 2 sides = 4,000 ft²

End Walls: 2 ft x 40 ft x 2 wall surfaces x 2 ends = 320 ft²

Total = 4,320 ft².

Water Needed: 4,320 / 1,000 x 1.5 gallons = 6.5 gallons

Taurus SC Needed: 6.5 gallons x 0.8 oz/gal = 5.2 oz

ProFoam Platinum Needed: 6.5 gallons x 9 oz/gal = 58.5 oz



RELEVANT PESTS

RELEVANT INSECTS



DARKLING/LITTER BEETLES



COCKROACHES



ANTS



SPIDERS



EARWIGS



YELLOW JACKETS



PAPER WASPS

OTHER INSECTS



HIDE BEETLES



ECTOPARASITES

RELEVANT INSECTS

Taurus SC is effective against darkling beetles, ants, cockroaches, spiders, earwigs, paper wasps, yellow jackets, and silverfish. Its application is limited for most flying insects like house flies but can aid in the management of other insects found on the exterior of structures.

ADDITIONAL USES

Fipronil, as a non-repellent insecticide, is also non-repellent to rodents. Applying it around rodent bait stations outside of buildings can exclude insects that consume rodent bait.

BENEFITS OF FIPRONIL

Fipronil's unique mode of action makes it highly effective against litter beetles, which have not been previously exposed. In tests, fipronil killed 93% of a resistant litter beetle population within 7 days. Laboratory bioassays were conducted by Danny McDonald, Ph.D., Control Solutions Inc., Tech Services Manager, Animal Health.

TAURUS® SC



CONCLUSION

Taurus SC is gaining popularity for exterior treatment of litter beetles around broiler houses. Its novel application as a foam into wall voids presents a new opportunity for effective insect management. Always ensure applications coincide with cleanouts and follow safety guidelines.



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