

VERIMARK® INSECT CONTROL BENEFITS

- Long lasting protection against feeding damage and pest-vectored diseases like tomato spotted wilt virus (TSWV)*, providing opportunity for increased yield.
- Cross-spectrum control of tobacco hornworm, tobacco budworm, tomato hornworm, flea beetle and thrips.
- Mode of action provides rapid feeding cessation in the critical crop establishment phase.
- Favorable mammalian toxicological profile and worker protection profile. Short REI and PHI.
- Convenient use, easily incorporated into existing imidacloprid greenhouse drench and Coragen® insect control transplant water program.
- Verimark insect control, powered by Cyazypyr® active, promotes optimized root uptake and crop safety to tender roots and shoots, protecting both older leaves and new growth from a cross spectrum of pests, and helps provide consistently better yields and quality results at harvest.

*Refer to 2ee label for TSWV suppression

PROGRAMS INCLUDING BOTH VERIMARK INSECT CONTROL AND IMIDACLOPRID RESULTED IN BEST OVERALL REDUCTION IN TSWV INCIDENCE

Applied as Tray Drench (TD) or in Transplant Water (TPW)



SUPERIOR INSECT CONTROL IN TOBACCO

Use Scenarios for Coragen Insect Control and Verimark Insect Control and Imidacloprid in Tobacco

PRODUCT ATTRIBUTE	CORAGEN INSECT CONTROL	VERIMARK INSECT CONTROL	IMIDACLOPRID	VERIMARK INSECT CONTROL AND IMIDACLOPRID PROGRAM	VERIMARK INSECT CONTROL, IMIDACLOPRID, CORAGEN INSECT CONTROL
ACTIVE INGREDIENT	Rynaxypyr® active	Cyazypyr active	Imidacloprid	Cyazypyr active, imidacloprid	Cyazypyr and Rynaxypyr actives, imidacloprid
IRAC MOA GROUP	28	28	4A	28 + 4A	28 + 4A
LEPIDOPTERA (BUDWORM, HORNWORM)	+++	+++	-	+++	+++
RESIDUAL LEPIDOPTERA CONTROL	+++	++	++	++	+++
FLEA BEETLE	-	+++	++	+++	+++
THRIPS	-	++, **	++, **	++, **	++, **
TOMATO SPOTTED WILT VIRUS SUPPRESSION	-	+, ***	+++	++, ***	++, ***
APHIDS	-	-	+++	+++	+++
APPLICATION METHOD	Transplant Water (TPW)	TPW or Tray Drench	TPW or Tray Drench	TPW or Tray Drench	Tray Drench fb TPW (Coragen insect control)
USE RATE	5-7 fl. oz./A	10-13.5 fl. oz./A	0.028-0.04 lb. ai/1,000 plants	13.5 fl. oz./A, 0.028 - 0.04 lb. ai/1000 plants	13.5 fl. oz./A, 5 fl. oz./A, 0.028 - 0.04 lb. ai/1,000 plants
RATING	+++	++	+	-	-
EFFICIENCY LEVEL	91-100%	75-90%	50-75%	<50%	<50%

Source: DuPont field trials, summary of multiple trials across geographies (2005-2017)

* Not all are labeled in tobacco ** Data in crops other than tobacco *** Tobacco data, labeled via Section 3 or 2(ee)

SPECIAL INFORMATION

- Do not apply more than 13.5 fl. oz./A (0.176 lb. ai/A) of Verimark insect control at tray drench or at planting.
- Do not apply more than 0.4 lb./A of Cyazypyr active or cyantranilprole-containing products per calendar year whether applications are made to the soil or foliarly.
- Combinations of Verimark and Coragen insect controls in the greenhouse and transplant water expose the same insect generation to Group 28 and should not increase selection for resistant insects. Applications to the next generation of tobacco budworms or other pests controlled by Verimark or Coragen insect controls should be made using a different mode of action.
- Verimark insect control must be applied uniformly in the root zone to ensure effective control.
- REI — 4 hrs.
- Use Rate — 13.5 fl. oz./A

CYAZYPYR ACTIVE — MODE OF ACTION CAUSES RAPID FEEDING CESSATION

- Cyazypyr active impacts insect feeding, behavior and reproduction by impairing muscle function.



An onion thrips on untreated pepper leaves. Dark contents in the gut indicate that the insect has been feeding.

An onion thrips on Cyazypyr-treated pepper leaves. Note the gut lacks any visible content because of feeding cessation. Over time, the thrips will become dehydrated and shrink further.

To learn more about Verimark insect control, contact your FMC retailer or visit FMCcrop.com.

Always read and follow label directions and precautions for use. Some products may not be registered for sale or use in all states. As of November 1, 2017, the USEPA registrations for DuPont™ Coragen® insect control, Cyazypyr® and Rynaxypyr® actives and Verimark® insect control were sold to FMC by DuPont. FMC, Coragen, Cyazypyr, Rynaxypyr and Verimark are trademarks of FMC Corporation or an affiliate. ©2018 FMC Corporation. All rights reserved. 18-FMC-0579 03/18

