

## A PRECISION STRIKE AGAINST APHIDS AND WHITEFLIES

Endeavor® insecticide works fast to control aphids and whiteflies across a wide-spectrum of ornamentals. Its unique mode of action works well in pest control rotational programs and helps quickly stop insect feeding, which can prevent virus transmission within plants. Additionally, Endeavor is highly compatible with beneficial insects, making it an ideal tool for integrated crop management (ICM) programs.

### QUICKLY STOPS FEEDING

Endeavor is rainfast shortly after application and quickly becomes available to targeted pests at their feeding sites. Translaminar and systemic movement distribute the product throughout the plant to provide complete protection. Within hours of ingestion, aphids and whiteflies stop feeding.

Endeavor provides:

- 14 to 21 days of aphid control
- 14 days of whitefly control

### UNIQUE MODE OF ACTION MAKES ENDEAVOR AN EXCELLENT ROTATION PARTNER

The unique mode of action makes Endeavor an ideal tool for rotational programs because it is effective against aphids and whiteflies that are resistant to other chemistry classes.



It provides growers a targeted tool to use against these pests so broad-spectrum insecticides will not be overused.

Endeavor is safe on plants, especially in outdoor production. It can be used in both greenhouse and nursery production on a wide variety of bedding plants and perennials.

### BENEFICIAL INSECTS LOVE IT

Endeavor is highly compatible with predators, parasites and other beneficial mites and insects used in biological control programs, which make it an ideal tool for ICM programs.

### ENDEAVOR SPECTRUM OF ACTIVITY

#### Against Aphids Found on Ornamentals

- *Aphis fabae* (Bean Aphid)
- *Aphis gossypii* (Melon or Cotton Aphid)
- *Aphis nerii* (Oleander Aphid)
- *Aphis spiraeicola* (Spirea Aphid)
- *Aulacorthum solani* (Foxglove Aphid)
- *Macrosiphoniella sanborni* (Chrysanthemum Aphid)
- *Macrosiphum euphorblae* (Potato Aphid)
- *Macrosiphum rosae* (Rose Aphid)
- *Myzocallis kahawaluokalani* (Crape Myrtle Aphid)
- *Myzus persicae* (Green Peach Aphid)
- Others (Cabbage Aphid, Citrus Aphid)

#### Against Whiteflies Found on Ornamentals

- *Bemisia argentifolii* (Silverleaf Whitefly)
- *Bemisia tabaci* (Sweetpotato Whitefly)
- *Trialeurodes vaporariorum* (Greenhouse Whitefly)
- *Trialeurodes abutilonea* (Bandedwinged Whitefly)

## Compatibility Between Endeavor® and Bioline™ Biological Control Agents

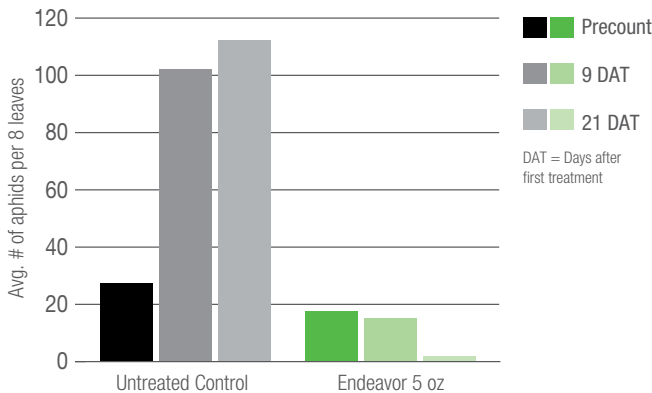
Aphid Control	Aphiline™ c Aphiline™ e Aphiline™ ace mix Aphiline™ ce mix	26-50% Reduction
	Aphidoline™ a	0-25% Reduction
	Chrysoline™ c	0-25% Reduction
Whitefly Control	Swirskiline™ as	0-25% Reduction
	Encarline™ f	0-25% Reduction
	Eretline™ e	0-25% Reduction

In most cases, Endeavor and Bioline biological control agents will work effectively together. In control of whiteflies and aphids, Endeavor will cause less than a 25 percent population reduction in five of the six biological control agents shown above.

## PROVEN CONTROL OF APHIDS AND WHITEFLIES

Results from research studies show Endeavor is effective against aphids and whiteflies on impatiens and salvia. In the untreated plants, the number of harmful insects increased greatly over a course of three-to-six weeks. In plants treated with Endeavor the number of harmful insects was reduced, proving the value and success of Endeavor against aphids and whiteflies.

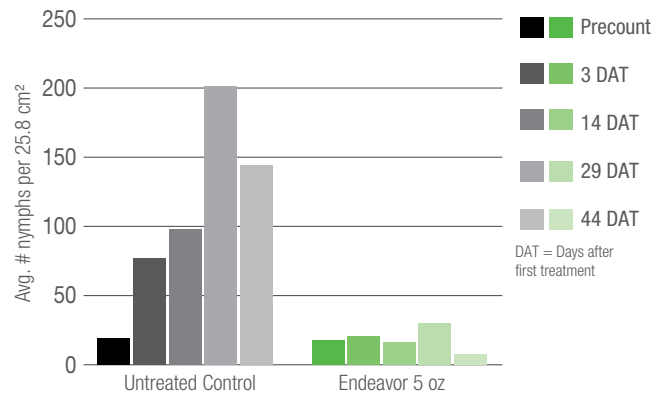
### Control of Melon Aphid (*Aphis gossypii*) on Impatiens



2011 – Gilrein, Cornell - LHREC  
Two spray applications on a 14 day interval – Rate per 100 gal

The average number of aphids per eight leaves in the untreated control was approximately 10 times the average number of aphids found on the plants treated with Endeavor at 5 oz 21 days after treatment.

### Control of Whitefly (*Bemesia tabaci*) on Salvia



2011 – Long, VBRC  
Four spray applications on a 14 day interval – Rate per 100 gal

The whitefly population in the untreated salvia, increased to 200 after 29 days. In the salvia treated with Endeavor, there were less than 30 whiteflies 29 days after treatment; 44 days after treatment, there were less than 10 whiteflies.

## BOTTOM LINE

- Endeavor works fast to stop insect feeding, which prevents virus transmission and provides control of the insect within a few days of treatment
- Unique mode of action makes Endeavor an important tool in rotational programs and works to prevent insect resistance
- Compatibility with beneficial insects makes Endeavor an excellent addition to biological control programs and integrated crop management systems

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 **Endeavor®**  
Insecticide

 **syngenta®**