



# Unique Power in Aphid Control

## An Exclusive Chemical Class of Aphid and Whitefly Control



Endeavor™ not only represents a novel way to control aphids and whiteflies—it represents an entirely novel class of insect control chemistry. This chemical class is pyridine azomethine, and it offers highly effective control.



### Unique Mode of Action — Blocks Ingestion

Endeavor moves quickly into plants and to the probing and feeding sites of sucking pests. Within hours of ingestion, Endeavor stops aphids and whiteflies from feeding further. As a result, they die from starvation in 2 to 4 days. Because of its unique mode of action (MOA), Endeavor is effective against aphids and whiteflies that are resistant to other classes of chemistry.

### Easy on Plants, Beneficial Arthropods, and the Environment

Endeavor has a wide margin of safety for use on ornamental plants. Because not all plant varieties and tank mixtures can be tested, treat a few plants first and observe.

Endeavor also has a wide safety margin to beneficial arthropods for use in IPM programs. In IOBC trials it was rated as harmless to most beneficials.

Endeavor is classified by the EPA as a reduced-risk pesticide. Minimal PPE is required with only a 12-hour REI.



### Guidelines for Use— 2.5 to 5.0 oz per 100 gallons

**Aphids:** Endeavor is effective against a wide spectrum of aphid species and will control all feeding stages when applied at 2.5 to 5.0 oz per 100 gallons. Make the first application when aphids first appear. Reapply when necessary, but no sooner than 7 days after the last application. In university trials, Endeavor provided 14 to 21 days of control. Add a wetting agent to improve coverage on plants that are difficult to wet.

**Whiteflies:** Endeavor is effective against the mobile life stages of whiteflies (adults and crawlers or first nymphs). Make the first application when whiteflies are first noticed and repeat the application in 7 days. Residual control of 7 to 14 days is best achieved following the second application at 5.0 oz per 100 gallons.

## Endeavor Spectrum of Activity

### Against Aphids Found on Ornamentals

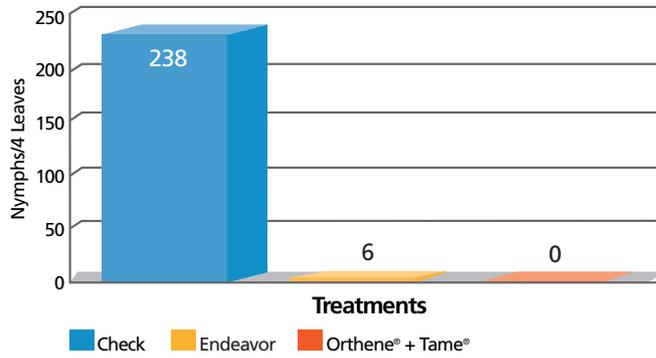
- Aphis fabae* (Bean Aphid)
- Aphis gossypii* (Melon or Cotton Aphid)
- Aphis nerii* (Oleander Aphid)
- Aphis spiraeicola* (Spirea Aphid)
- Aulacorthum solani* (Foxglove Aphid)
- Macrosiphoniella sanborni* (Chrysanthemum Aphid)
- Macrosiphum euphorbiae* (Potato Aphid)
- Macrosiphum rosae* (Rose Aphid)
- 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)

## Control of Sweetpotato Whitefly on "Angelica" Poinsettia

TABLE 1

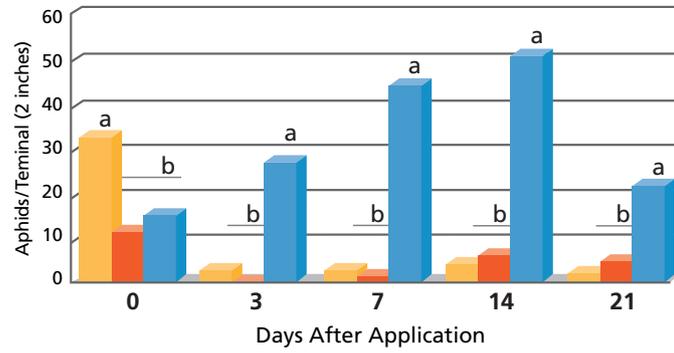


Application Dates: 8/26, 9/2, 9/9/94. Evaluation: 2 weeks after third application. Treatments/Trial=7. Rates (oz a.i. per 100 gals): Endeavor (4.0), Orthene (8.0), Tame (3.2).

Trial Location: Dr. D.R. Smitley, Michigan State University.

## Residual Control of Spirea Aphids on Spirea

TABLE 4

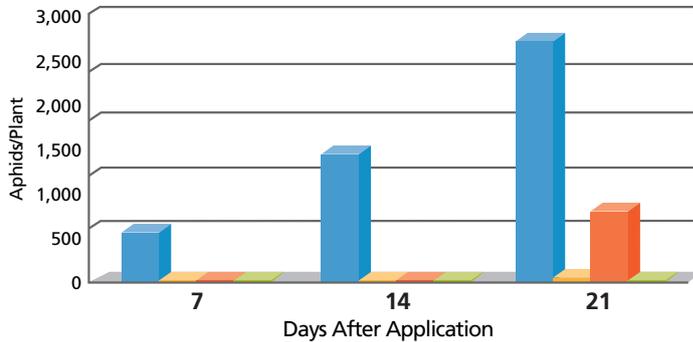


Treatments (oz/100 gals)  
Endeavor 2.5 oz    Orthene 5.3 oz    Nontreated

Dr. F. Miller, UI, 1999.

## Melon Aphid Control on Chrysanthemum

TABLE 2

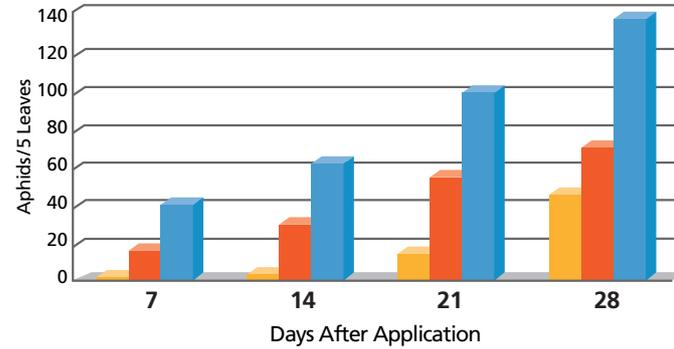


Treatments (oz/100 gals)  
Nontreated    Endeavor 2.5 oz    Diazinon AG600 54.5 oz    Talstar F 4 oz

Dr. J.F. Price, UF, 1998.

## Residual Control of Melon Aphid on Mums

TABLE 5

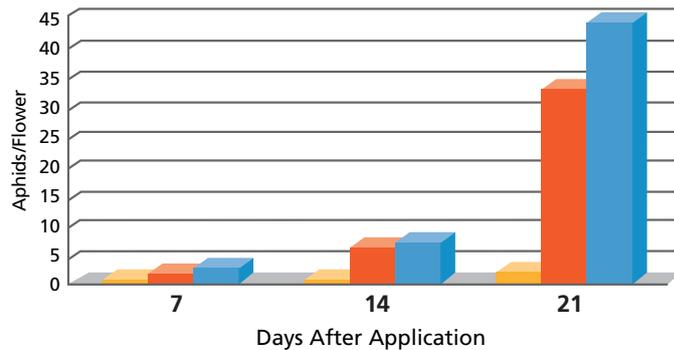


Treatments (oz/100 gals)  
Endeavor 2.5 oz    Orthene 10.6 oz    Control (Water)

Location: R. Oetting, GA, 1998.

## Melon Aphid on Mums

TABLE 3



Treatments (oz/100 gals)  
Endeavor 2.5 oz    Orthene TTO 5.3 oz    Nontreated

Dr. J. Baker, NCSU, 1998.

### Novel Aphid Control

- Effective against wide spectrum of aphid species
- Plus controls whiteflies
- Unique MOA: blocks ingestion
- Reduced-risk insecticide

Call 1-800-395-8873 to contact your local Syngenta turf and ornamental sales representative and learn more about Endeavor.



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