

Description

Dalotia (Atheta) coriaria is a native species of soil-dwelling rove beetle which feeds on small insects and mites. Adults are 3-4 mm long and are slender with short wing covers. They are light to dark brown in color. Females lay eggs in the soil and larvae hatch 2-3 days later. *Dalotia* larva are thin and yellow to brown in color. They live in the ground. Both adults and larvae are active and voracious predators. Adult *Dalotia* have an interesting habit of curving the abdomen upwards like scorpions and can run or fly when disturbed. Since they actively fly, they rapidly colonize the release area.



Life cycle

- The optimum conditions are temperatures between 20 and 25°C and a relative humidity of 50-80%.
- Adults can live up to 21 days.
- The eggs hatch after 2 to 3 days.
- Each *Dalotia (Atheta)* can consume 10-20 thrips per day or 150 pest fungus gnats eggs per day.
- Adults are non-diapausing under greenhouse conditions.
- Becomes inactive below 15 °C.



Introduction rate

Introduction	Quantity	Surface	Frequency	duration
Preventive	1	per m ² or 100-1000 per greenhouse	7-14 days*	until a total of 1/m ² (10 ft ²)
Curative medium	5	per m ²	7-14 days*	as needed
Curative heavy	10	per m ²	7-14 days*	as needed
Maintenance	50-100	per crop area	as needed	as needed

* Depending of the pest history or pressure.

Application

Dalotia (*Atheta*) *coriaria* is most effective when applications are started before fungus gnat population becomes well established or while numbers are still low (below 10/trap/week). One application of *Dalotia* per crop cycle is usually sufficient if started early in the season.

To ensure reproduction and mating, release a maintenance rate of 50-100 *Dalotia* per production area. Be sure to treat areas with wet, exposed areas of soil, where fungus gnats and shore flies are likely to breed.



Formats

- AB010 - *Dalotia* (*Atheta*) *coriaria* - 100 adults in vial
- AB011- *Dalotia* (*Atheta*) *coriaria* - 1000 adults in bag



How to use

1



Use upon receipt. This insect flies. Do not open the container until you are in the area to be treated.

2



Sprinkle the contents on the soil or substrate. Adults are mobile and will move throughout the area.

Use upon receipt • Do not freeze • Do not refrigerate