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

<table>
<thead>
<tr>
<th>Introduction</th>
<th>Quantity</th>
<th>Surface</th>
<th>Frequency</th>
<th>duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Preventive</td>
<td>1</td>
<td>per m² or 100-1000 per greenhouse</td>
<td>7-14 days*</td>
<td>until a total of 1/m² (10 ft²)</td>
</tr>
<tr>
<td>Curative medium</td>
<td>5</td>
<td>per m²</td>
<td>7-14 days*</td>
<td>as needed</td>
</tr>
<tr>
<td>Curative heavy</td>
<td>10</td>
<td>per m²</td>
<td>7-14 days*</td>
<td>as needed</td>
</tr>
<tr>
<td>Maintenance</td>
<td>50-100</td>
<td>per crop area</td>
<td>as needed</td>
<td>as needed</td>
</tr>
</tbody>
</table>

* 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