Black Shank and Blue Mold Protection

Presidio® Fungicide is targeted chemistry that protects tobacco threatened by black shank and blue mold.

- **Novel mode of action**—sole member of FRAC Group 43
- **Effective**—outstanding preventive control and yield protection
- **Focused**—ideal rotational chemistry for black shank resistance management

Presidio Program Enhances Black Shank Control on Flue-Cured Tobacco

*Presidio* added to a Ridomil program for black shank gives better control of black shank than Ridomil alone.

Sources: North Carolina State University and University of Georgia

Application timings: A = Transplant water, B = 1st cultivation, C = Layby

Presidio Program Boosts Yield from Black Shank Protection Flue-Cured Tobacco

*Presidio* at 1st cultivation in a three-spray program resulted in a significant increase in yield over the Ridomil-only program.

Sources: North Carolina State University and University of Georgia

Yield (lb/A) = Cured leaf

Application timings: A = Transplant water, B = 1st cultivation, C = Layby
### Target Diseases

<table>
<thead>
<tr>
<th>Black Shank (Phytophthora nicotianae)</th>
<th>Blue Mold (Peronospora tabacina)</th>
<th>Tobacco (flue-cured, burley, dark and cigar)</th>
<th>Rate</th>
</tr>
</thead>
</table>

### Presidio Application Options for Multi-Spray Black Shank Programs

<table>
<thead>
<tr>
<th></th>
<th>Program 1: Post-Transplant (Presidio at Layby)</th>
<th>Program 2: Post-Transplant (Presidio at 1st Cultivation)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>At-Planting</strong></td>
<td>Apply registered fungicide with different mode of action against black shank at or immediately after transplanting</td>
<td>Apply registered fungicide with different mode of action against black shank at or immediately after transplanting</td>
</tr>
<tr>
<td><strong>1st Cultivation</strong></td>
<td>Apply registered fungicide with different mode of action against black shank</td>
<td>Presidio 4 fl oz/A, direct nozzles to cover soil beneath lower leaves, incorporate immediately with cultivator</td>
</tr>
<tr>
<td><strong>Layby</strong></td>
<td>Presidio 4 fl oz/A, direct nozzles to cover soil beneath lower leaves, incorporate immediately with cultivator</td>
<td>Apply registered fungicide with different mode of action against black shank</td>
</tr>
</tbody>
</table>

### Other Important Information

- **Application Methods**
  - **Black Shank**: Post-transplant soil-directed spray at 1st cultivation or layby
  - **Blue Mold**: Foliar spray

- **Resistance Management Requirements**
  - **Black Shank**: Alternate Presidio with a fungicide which has a different mode of action (different FRAC group) against black shank. Do not make sequential applications of Presidio for black shank.
  - **Blue Mold**: Tank mix Presidio with a labeled rate of another fungicide active against blue mold, but with a different mode of action. A sequential application of Presidio plus a tank mix partner is permitted (7-day interval).

- **Re-Entry Interval (REI)**: 12 hours

- **Pre-Harvest Interval (PHI)**: 7 days (foliar)

- **Rainfast**: 2 hours

- **Compatibility**: Compatible with fungicides, insecticides and fertilizers