Advanced Powdery Mildew Control for Tomatoes and Fruiting Vegetables

Benefits of Vivando® Fungicide

- Unique mode of action for high performance and resistance management
- Multi-Level Activity stops infections and limits sporulation with surface migration for improved coverage and performance
- Highly rainfast and favorable PHI for flexible and effective powdery mildew control

Vivando Fungicide Control of Tomato Powdery Mildew

<table>
<thead>
<tr>
<th>Treatment</th>
<th>Lower Canopy Powdery Mildew (0 – 10 scale)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Priaxor® Fungicide 8 oz + NIS</td>
<td>1.3</td>
</tr>
<tr>
<td>Vivando Fungicide 15.4 oz + OS</td>
<td>2.7</td>
</tr>
<tr>
<td>Quintec® 12 oz + NIS</td>
<td>3.4</td>
</tr>
<tr>
<td>Quintec 6 oz + NIS</td>
<td>3.5</td>
</tr>
<tr>
<td>Untreated Control</td>
<td>5.5</td>
</tr>
</tbody>
</table>

2014 Tom Turini, UCCE, West Side Research and Extension Center, Fresno, CA. Variety: Sun 6366. Randomized complete block with 4 reps. Application was made on Aug 8. Leaves were rated on a scale of 0 – 10 for each plot on Aug 22. BASF sponsored evaluation.

Vivando fungicide makes a good powdery mildew program better with consistent performance and a unique mode of action.
Best Use Recommendations

- Use Rate: 15.4 oz/A
- Apply preventively for best performance
- Does not have curative action
- PHI = 0 days
- ≤ 2 sequential sprays then change MoA
- Maximum of 3 sprays/year

Adjuvant Flexible

- Performance generally improved by adding non-phytotoxic adjuvants
- Use commonly recommended organo-silicone adjuvants
- DO NOT mix with horticultural oils

Target Disease

- Powdery Mildew – Leveillula spp., Oidium spp., and Erysiphe spp.

Crop Uses

- All Group 8, fruiting vegetables: bell pepper, eggplant, okra, non-bell pepper, tomatillo and tomato
- Grapes, pome fruits, cucurbit vegetables, hops, cherries, peach and apricot

Vivando Fungicide Control of Pepper Powdery Mildew

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</tr>
<tr>
<td>Rally® 5 oz</td>
<td>4.2</td>
</tr>
<tr>
<td>Flint® 2 oz alt. Sonata® 4 qt</td>
<td>4.7</td>
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2013 Steve Koike, UCCE, Gilroy, CA. Variety: Baron. Plot size 40 in x 12 ft. Randomized complete block with 4 reps. Applications were made on July 16, 30, Aug 14, 28, and Sept 10. Syl-Tac at 4 fl oz/A was used with all treatments. Rating consisted of 20 fully expanded leaves were randomly collected from the upper half canopy of 10 plants, and 20 older leaves were randomly collected from the lower half. Ratings taken on Sept 20, 2013.

Vivando Fungicide Unique Mode of Action

Vivando fungicide disrupts actin accumulation in the hyphal tip. This stops normal fungus growth.

Vivando Fungicide

Untreated

Vivando Fungicide

Normal actin accumulation at hyphal tip (left) allows for normal fungal growth. Vivando fungicide prevents actin accumulation (right) and this disrupts fungal growth. Photos use antibody-based staining and CLSM microscopy technique.

Vivando Fungicide Control of Pepper Powdery Mildew

Tomato Powdery Mildew Reduces Photosynthesis and Yield

Severe Powdery Mildew

Healthy Tomato Plants

Vivando® Fungicide

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Vivando Fungicide Control of Pepper Powdery Mildew

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