



syngenta.

**Delivering
exceptional control**
of difficult to manage
pests in potatoes

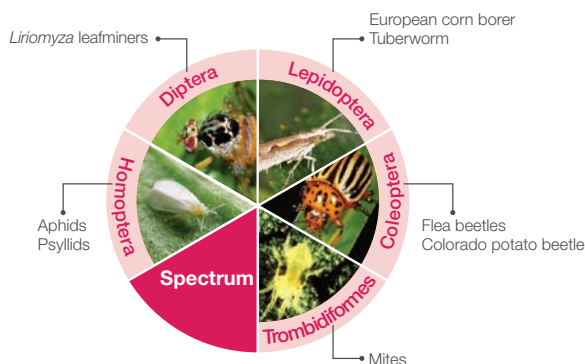
Minecto Pro offers exceptional control of the toughest pests in potatoes

A broad-spectrum, foliar insecticide, Minecto® Pro controls the most important potato pests including Colorado potato beetles and potato psyllids. Harnessing the power of two complementary active ingredients, cyantraniliprole and abamectin, into one convenient premix formulation, Minecto Pro protects against multiple pest populations that overlap or occur at the same time.

Features and benefits

- Offers superior broad-spectrum control in potatoes
- Controls the most problematic sucking/rasping/chewing pests like mites, psyllids and Colorado potato beetles
- Contains the active ingredient cyantraniliprole, a second generation diamide that provides a broader spectrum of control than first generation diamides
- Provides two complementary modes of action (cyantraniliprole and abamectin), carefully selected to help control overlapping or simultaneous pest populations
- Allows for robust use rates of each active ingredient
- Is an excellent alternative to foliar neonicotinoid insecticides

Activity spectrum



Best use guidelines

1. Minecto Pro must always be mixed with a non-phytotoxic, non-ionic activator type wetting, spreading and/or penetrating spray adjuvant or horticultural oil (not a dormant oil).
2. When pest populations are high, use the highest rate allowed for that pest.
3. Thorough coverage is essential to obtain best results. Select a spray volume appropriate for the size of the crop and density of foliage.
4. Apply this product diluted in a minimum volume of 20.0 gal/A by ground application or 5.0 gal/A by air. Under conditions such as high pest populations, dense foliage, or adverse application conditions (such as high temperatures), use a greater volume of water to ensure adequate coverage.
5. For best control of mites apply Minecto Pro with ground application equipment. With aerial application, the resulting level and duration of control of insects and spider mites could be less than with ground application.
6. Do not make more than 2 sequential applications.

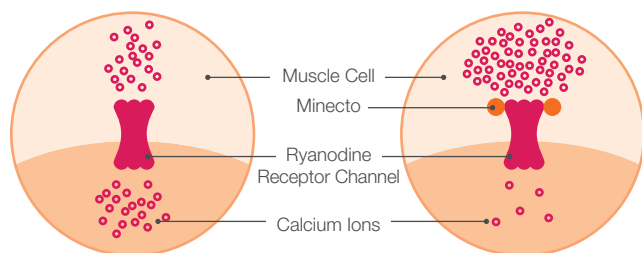


Technical profile

| | |
|--------------------------------|---|
| Chemistry | Cyantraniliprole – IRAC Group 28 Abamectin – IRAC Group 6 |
| Mode of action | Cyantraniliprole – 2nd generation diamide with a novel mode of action on insect ryanodine receptors Abamectin – A mectin with a unique agonist mode of action on the neurotransmitter gamma-aminobutyric acid (GABA) |
| Formulation | Formulated as a suspension concentrate (SC) and contains 1.13 lb cyantraniliprole and 0.24 lb abamectin per gallon |
| Systemicity | Translaminar movement |
| Precautions | Signal word: Warning |
| Re-entry interval (REI) | 12 hours |

Mode of action

Calcium is released, muscle contracts



Cyantraniliprole is a ryanodine receptor modulator. It binds to the insect's ryanodine receptor in muscle cells and causes the channel to open. This results in a flow of calcium ions from internal stores to the cytoplasm causing **muscle paralysis, cessation of feeding** and **ultimately insect death**.

Label at a glance*

| | | |
|--|--|------------|
| Rate (fl oz/A) | Beet armyworm Colorado potato beetle European corn borer <i>Liriomyza</i> leafminers Potato tuberworm Spider mites Yellowstriped armyworm | 5.5 – 10.0 |
| | Cabbage looper | 7.5 – 10.0 |
| | Green peach aphid Potato psyllid Suppression: Potato aphid Potato flea beetle | 10.0 |
| Maximum rate per application (fl oz/A) | 10.0 | |
| Minimum spray volume gallons per acre (GPA) | 5.0 by air/ 20.0 by ground | |
| Preharvest Interval (PHI) | 14 days | |
| Adjuvants | Always mix with a non-phytotoxic, non-ionic activator type wetting, spreading and/or penetrating spray adjuvant or horticultural oil (not a dormant oil) as specified on the label. Do not use binder or sticker type adjuvants because these type adjuvants may reduce translaminar movement of the active ingredient into the plant, and can result in reduced efficacy. | |
| Minimum application interval | 7 days | |

*Always consult the individual product label for complete use directions and application information

Insects controlled

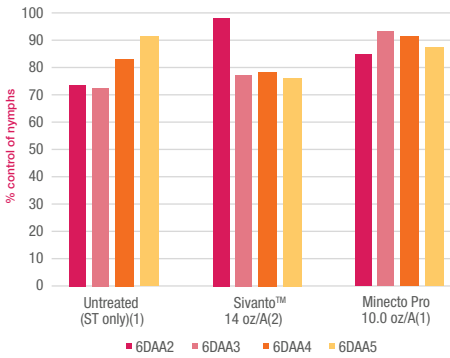
Beet armyworms
Colorado potato beetles
European corn borers
Liriomyza leafminers
Potato tuberworms

Spider mites
Yellowstriped armyworms
Cabbage loopers
Green peach aphids
Potato psyllids

Suppression:
Potato aphids
Potato flea beetles



Potato psyllid control (nymph)

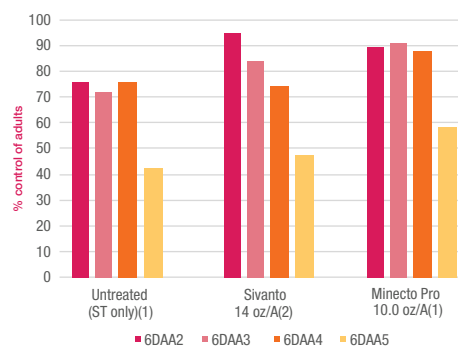


| No. nymphs in check: | |
|----------------------|-----|
| 6 DAA2 | 4.3 |
| 6 DAA3 | 5.9 |
| 6 DAA4 | 3.3 |
| 6 DAA5 | 1.4 |

Variety: Atlantic

All treatments included NIS @ 0.1% v/v
All treatments had a ST underlay containing either CruiserMaxx® (1) (0.23 fl oz/cwt seed), or Admire® Pro (2) (0.35 fl oz/cwt seed)
Foliar application: Five applications on 7-day interval beginning March 12, 2015
USWA011022015 – Internal Syngenta trial, AZ

Potato psyllid control (adult)

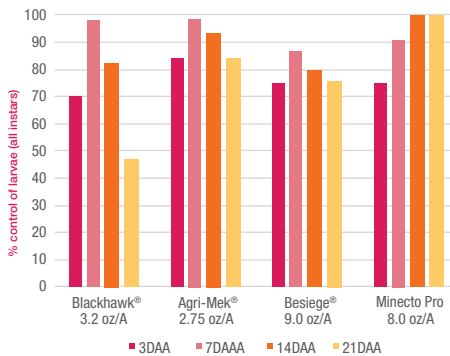


| No. adults in check: | |
|----------------------|-----|
| 6 DAA2 | 7.7 |
| 6 DAA3 | 8.3 |
| 6 DAA4 | 3.7 |
| 6 DAA5 | 1.8 |

Variety: Atlantic

All treatments included NIS @ 0.1% v/v
All treatments had a ST underlay containing either CruiserMaxx (1) (0.23 fl oz/cwt seed), or Admire Pro(2) (0.35 fl oz/cwt seed)
Foliar application: Five applications on 7-day interval beginning March 12, 2015
USWA011022015 – Internal Syngenta trial, AZ

Colorado potato beetle control (larvae)

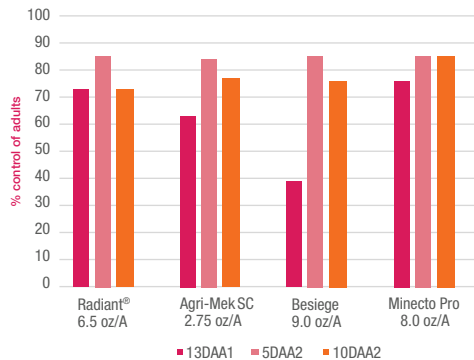


| No. of total larvae in check (per 20 plants): | |
|---|------|
| 3 DAA | 40.0 |
| 7 DAA | 49.0 |
| 14 DAA | 72.0 |
| 21 DAA | 57.0 |

Variety: Red Norland

All treatments included NIS @ 0.1% v/v
Foliar application: One application on June 13, 2016
USEC010042016 – Internal Syngenta trial, NY

Colorado potato beetle control (adult)



| No. of total adults in check: | |
|-------------------------------|------|
| 13 DAA1 | 6.0 |
| 5 DAA2 | 55.0 |
| 10 DAA2 | 50.0 |

Variety: Atlantic

All treatments included NIS @ 0.1% v/v
Foliar application: Two applications on 6/10; 6/25
USEB011012015 – Internal Syngenta trial, NJ

For more information visit www.SyngentaUS.com/MinectoPro.

Minecto® Pro

syngenta®

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