

PEARS - OVER-WINTERING LEAFROLLERS

General Information

GENERAL INFORMATION

Surround CF protectant forms a mineral-based particle film intended for protection of agricultural crops. When Surround CF is applied to plants, a dry white film results. Surround CF is specially designed for rapid mixing into cold water (less than 40° F). Pests may be listed as suppressed, which means that full control may not be achieved, and supplemental methods may be needed to enhance the level of control. Thorough, uniform, and consistent coverage is essential throughout the infestation or stress period.

- Pre-harvest intervals (PHI): Surround CF applications on pears are only allowed until fruit set. Do not use the Surround CF formulation after fruit set. Other Surround formulation(s) are designed for uses after fruit set.

GENERAL APPLICATION INSTRUCTIONS

Rates: Rate is dependent on the amount of foliage or branches that need to be covered.

Concentration (the amount of Surround CF per 100 gallons of water): Surround CF is recommended to be used at concentrations of 25 to 50 lbs Surround CF per 100 gallons, but concentrations of up to 100 lbs per 100 gallons are allowed for specific uses.

Coverage: Use sufficient spray volume to obtain thorough near drip coverage. Two or more applications are desirable for complete coverage. For optimal performance as an insecticide, applications must coat all portions of plant that are to be protected, including both sides of the leaves. Another spray is recommended if coverage is insufficient. Dwarf, semi-dwarf, and otherwise well-pruned trees will be easier to cover than large trees. Optimum efficacy may be more difficult to achieve in large trees due to increased difficulty achieving thorough coverage.

Applications to tree crops can be made with commercial air blast or high-pressure sprayers that provide enough air turbulence to coat both sides of the leaves, bark,

and fruit. Tractor speed of less than 3 mph is recommended when using airblast sprayers.

Plant Color Change: Plant surfaces will typically turn a hazy white color after drying. Additional treatments will turn the plant surfaces a deeper white. This is normal, and indicates appropriate film formation.

Foliage Dryness: It is not recommended to apply to dripping wet foliage.

Spray Methods: Air blast, high-pressure hand gun, or boom sprayers are recommended for agricultural uses. Do not apply Surround CF through sprinkler irrigation systems. Observe specific crop label instructions for directions regarding spray volume. Calibrate spray equipment per equipment manufacturer to deliver the required volume. At recommended concentrations, the flow rate of suspended Surround CF is similar to water. It is recommended to use strainers, preferably no finer than 40 mesh, in the spray system and behind each nozzle per normal practice.

When the dry foliage has lost its white appearance, reapplication is necessary. Heavy rainfall, new growth, and wind erosion will affect film quality. Reapply to re-establish coverage after heavy rain as soon as the foliage is dry. However, reapplication may not be necessary if all target surfaces remain thoroughly coated. Excessively thick coatings are not recommended.

Aerial Application: Aerial applications may not be effective for controlling insects. It is recommended when using aerial applications to take all precautions needed to minimize or eliminate drift, e.g., do not spray under windy or gusty conditions. It is recommended to make applications not more than ten feet above the top of the largest plant unless a greater height is required for aircraft safety. It is best when making applications at low relative humidity to increase droplet size to compensate for evaporation. It is not recommended to use spray drift agents not approved by Tessengerlo Kerley, Inc.

Non-Target Surfaces: It is not recommended to spray where the resulting visible white film will be undesirable or cannot be washed off, such as porous wood, masonry, asphalt, and other valuable goods.

Limitations, Restrictions, and Exceptions

PEARS

- Surround CF is specially designed for rapid mixing into cold mix water (less than 40° F) that is common in early spring conditions.
- Do not use the Surround CF formulation after fruit set. Other Surround formulation(s) are designed for post fruit set uses.
- Surround CF is designed to be used with nonphytotoxic superior-type agricultural spray oils for best film formation.
- For pre-bloom sprays it is recommended to add at least 0.5 to 1.5 gallons of dormant or summer spray oils per 50 lbs of Surround CF. The preferred addition amount for optimum film formation-only is 0.75 gallons of oil per 50 lbs of Surround CF.
- Oils, especially above 2 gallons per 50 lbs, will reduce the visual whiteness of the particle film. Whiteness may re-appear over time as the oils evaporate or absorb into bark.
- See mix instructions for order of addition.
- Follow all oil label recommendations.

PEST:

Over-wintering leafrollers, especially obliquebanded leafroller (OBLR)

Over-wintering leafrollers: Suppression only. Supplemental controls may be needed for complete control.

Recommendations

Apply 2 sprays 7 days apart starting just prior to green tip or at initial emergence of leafroller larvae.

Method

[Broadcast/Foliar Air](#)

Rates

[field_rates 0](#)

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Restricted Entry Interval

4 hours

Timings

7 days apart starting just prior to green tip or at initial emergence of leafroller larvae.