



ENDOFINE® VERT

FOLIAR INOCULANT

GENERAL INFORMATION: EndoFine® Vert is a naturally occurring foliar inoculant that colonizes plant tissue and establishes a symbiotic relationship with plants to provide

A REDUCTION OF ENVIRONMENTAL STRESS ON CROPS.

The organism in EndoFine® Vert is present in all fields, but in insufficient numbers to effectively colonize all plants. The addition of EndoFine® Vert re-establishes a normal relationship within plant roots, stems and leaves, thereby allowing for greater growth and yield potential. For irrigated fields, use **non-chlorinated** natural well water or water from dug-outs.

CONTAINS NON-PLANT FOOD INGREDIENTS

Ingredients: Clonostachys rosea (2 x 10⁷ viable cfu/gram) 100%

NOT A PLANT FOOD INGREDIENT

Carefully read label

Net Contents: 250 grams (8.8 oz)

DATE OF MANUFACTURE:

Lot #:

U.S. Patent No. 8,101,551

APPLICATIONS AND RATES

Avoid tank mixing with fungicides, insecticides, herbicides, or fertilizers as these may reduce the beneficial effect of EndoFine Vert or contact seller for details.

Foliar Spray, Wound Treatment or Grafting: Add 0.13 to 0.26 oz (3.7grams to 7.4 grams) per gallon (1 to 2 grams / Litre) of water. Apply as a fine spray for thorough coverage. Use the lower rate when applying to freshly wounded or pruned plants (easy to colonize).

Field Sprayer: Mix 8.8 oz (250g) in 33 to 65 gallons (125 to 250 Litres) depending on type of crop. Apply in sufficient water volume per acre to achieve full coverage (e.g. 25 gallons per acre on average for most crops). Adjust rate per acre and water volume/acre for row crops (on band width) as required. Apply in the evening or late in day when humidity **is highest** for best results. Use 50 mesh screens. **Avoid rainfall or irrigation within 8 hours to allow for optimum colonization. See Label Supplement in case.**

Cutting Dip/bulb and/or Transplant Dip: Use 0.2 to 0.4 oz per gallon (1.5 to 3 grams per liter) to drip all ornamentals, fresh cuttings, bulbs or seedlings prior to planting. Keep suspension well mixed. For best results, hold all inoculated plants for 8 to 10 hours at 70°F to assure colonization prior to planting or placing in cold storage (after inoculation) to await planting.

Seedling Drench: Apply 0.2 to 0.4 oz/gallon (1.5 to 3 grams/Litre) of non-chlorinated water. Keep agitated.

Dry Seed Treatment: Apply as dry powder to seed at 0.2 to 0.4 oz per 50lb of seed (0.25 to 0.5 grams/kg). Apply in auger while filling planter). Also see EndoFine SI seed treatment for further details for seed treatments.

GRAPES:

For pre-bloom treatment, Post bloom treatment: apply at BB stage (early) and at Veraison (bunch closing)

Add EndoFine Vert to spray tank at 0.2 to 0.4 oz per gallon (1.5 to 3.0 grams per liter) in non-chlorinated water. Apply at a rate of 25 gallons per acre (95 Liters/Acre) or more to ensure good coverage. Maintain excellent agitation in the tank to prevent settling and use 50 mesh screens.

Timing: Apply immediately after hedging or thinning of your grapevines or when stress levels are imminent to provide optimal health benefits to plants. Inoculate vines early in season to achieve optimal health benefits**. Apply in the evening when humidity is highest. Avoid rainfall or irrigation for 8 hours. For application 2-3 weeks prior to harvest, (call for details).

** To monitor benefits, compare results of EndoFine Vert alone on reducing stress on several rows to rows treated with EndoFine Vert plus conventional fungicide treatments and to an existing conventional or organic program to measure effects on plant health (call seller for details).

Root Dip Treatment: (as per transplant dip see above) Add 0.2 to 0.4 oz per gallon of suspension (1.5 to 3.0 grams per Liter). Keep suspension well mixed.

Avoid tank mixing with fungicides, insecticides, herbicides or fertilizers as these may reduce the survival and colonization of EndoFine Vert. Call seller for details.

GENERAL USES (Roses, Greenhouse/hot house plants)

See above for rates to plants that are pruned or trimmed (1st and 2nd trimming). Use lower rates when applying to freshly wounded/pruned/trimmed plants (easy to colonize). Apply to wounds immediately or the same day. For transplant dip treatments also see above.

SOIL MIXING AND TRANSPLANTING:

Add 0.5 to 2lbs of **EndoFine Vert** to each 100 lbs (5 to 20 grams per Kg) to dry blend/ soil mix that does not contain fertilizers, fungicides, insecticides, herbicides. Blend dry potting soil well and use immediately. Soil mixing should be done with suitable organic substrates and soil mixes used quickly. **Call for details.**

SEED/SEEDLING DRENCH:

Add 0.2 to 0.4 oz to 1 gallon of non-chlorinated water (1.5 to 3 grams per liter). Drench the root zone in sufficient water to thoroughly wet seedlings. Plant treated within 24 hours of inoculation.

STRAWBERRIES:

TRANSPLANT TREATMENT

Mix 0.2 to 0.4 oz per gallon (1.5 to 3.0 grams per liter). Immerse transplants in the well agitated suspension. Drain off suspension. Let plants sit over night (8 to 10 hours) at 70°F for optimal colonization. Plant the next day.

FOLIAR AND BLOOM INOCULATION (Seasonal and ever bearing varieties)

Spray plants 8-10 days before flowering and at intervals of 5-7 days during Bloom. Do not mix **EndoFine Vert** with any fertilizer, insecticides or fungicides. Some fungicides are compatible with EndoFine Vert. Call for details.

Mix 0.15 to 0.3oz per gallon (1 to 2 grams per Liter) in non-chlorinated water and apply for complete coverage as a fine foliar spray. Maintain good agitation. Spray to slight foliar run off. Evening application will allow plants to remain wet as long as possible allowing for good colonization. When stress levels are imminent, inoculate your plants as soon as possible to provide optimal health benefits. Apply immediately after thinning or trimming of your strawberries ; when stress levels are imminent, provide optimal health benefits to plants by inoculating vines early in season**.

** To monitor benefits, compare results of EndoFine Vert alone on reducing stress on several rows to rows treated with EndoFine Vert plus conventional fungicide treatments and to an existing conventional or organic program to measure effects on plant health (call seller for details).

FOLIAR INOCULATION OF CEREALS AND OTHER CROPS:

Apply EndoFine Vert at 2 to 4 oz in 10 gallons non-chlorinated spray water per acre (1.5 to 3 grams per Liter). Adjust rate per acre and water volume for row crops (based on seeding rate) as required. Apply in the evening or late in day when humidity is highest for best results. Avoid rainfall within 8 hours will allow for optimum colonization. In addition to seed inoculation apply at least 2 times; prior to flag leaf formation and at pre-boot or boot stage.

SPRAYER RECOMMENDATIONS AND PRODUCT TIPS

- Ensure sprayer has been triple rinsed with clean water.
- Use non-chlorinated or pond/dugout spray water
- Do not mix **EndoFine Vert®** with any pesticides or fertilizer; some fungicides are compatible with EndoFine Vert. Call for details.
- Maintain good agitation and high pressure of 100-200 psi.
- Use 50 mesh screens
- Once mixed with water, **EndoFine Vert®** remains viable for 9 hours
- Keep **EndoFine Vert®** refrigerated or in cooler at 0-3°F prior to use. EndoFine Vert has a 2 year shelf life in refrigeration or cooler and full season survival in storage at temperatures below 70°F.
- **ENDOFINE VERT** will impart stress tolerance and activate immune response traits in plants. A more massive root system imparts drought resistance. A healthy, live root zone is optimal for the survival of beneficial micro-organisms.
- Apply in the late day or evening for best results when humidity is highest; avoid prolonged direct exposure to sunlight or elevated temperatures (above 70°F) to optimize colonization
- Avoid use with chlorinated water; well water or non-chlorinated dug-out water is recommended.
- **EndoFine Vert** can optimize nutrient and micro-nutrient use in crops. Enhanced Rhizobium growth results in better nitrogen fixation (nodulation).
- Comparison trials are recommended to demonstrate benefits.
- Under **non stress conditions**, optimal growth benefits may not always be evident (e.g. high levels of fertility) The crop quality should be monitored (e.g. cereals for improved protein, improved tillering, root development and kernel weights), or improved storage and shelf life of crops (e.g. strawberries, grapes, etc.) including faster crop Emergence and Shorter Days to Harvest.

PRECAUTIONS: Keep out of reach of children. Avoid contact with skin and eyes. Wear NIOSH approved respirator when mixing. Wash hands after use. Do not store near food or feed.

STORAGE: Refrigerate at 35°F to 41°F. Keep in darkness in original container with lid closed. See manufacturing date on label. Use product within 12 months from date of manufacture.

WARRANTY: Sylvan Bioproducts, Inc. and Adjuvants Plus Inc. (the "Companies") warrant that this product conforms to the description on the label and is reasonably fit for the purposes referred to in the directions for use, subject to the factors noted above, which are beyond the control of the Companies. The Companies make no other warranties or representations of any kind, express or implied, concerning the product, including the implied warranty of merchantability or fitness for a particular purpose, and no such warranty shall be implied by law. The exclusive remedy against the Companies for any cause of action relating to the handling or use of this product is a claim for damages and in no event shall damages or any other recovery of any kind against the Companies exceed the price of the product that caused the alleged loss, damage, injury or other claim. The Companies shall not be liable for, and any and all claims against the Companies are waived for, special, indirect, incidental, or consequential damages or expense of any nature, including, but not limited to, loss of profits or income.

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