

Mycorrhizal Applications

for GREENHOUSES

Why are Mycorrhizae Important?

Mycorrhizal fungi are essential to living soils, and allowed plants to colonize the non-aquatic surface of our planet around 450 million years ago. Approximately 95% of all plant species form symbiotic relationships with beneficial mycorrhizal fungi, however, unfortunately many growing media and landscape soils have depleted mycorrhizal populations. With the MycoApply® products we offer, greenhouse managers can reestablish these essential microbes and benefit from this age-old symbiotic relationship to get their plants started right, in living soils which help reduce the need for expensive inputs, increase plant uniformity and vigor, and ultimately result in better sell-through.

The use of beneficial mycorrhizal fungi provides greenhouse managers a new tool to improve plant health and quality, and experience maximum return on investment while reducing the need for expensive and impactful chemical inputs.

Benefit to Plants

Mycorrhizal inoculations increase greenhouse plants' effective rooting and surface area by as much as 50 times.

Mycorrhizal colonization results in a significant increase in a plant's ability to absorb soil nutrients.

The symbiosis with mycorrhizal mycelia can increase water absorption several hundred to several thousand times compared to roots alone.



Treated with MycoApply® | Control - Not Treated

These two coreopsis specimens were propagated in identical conditions, greenhouse grown, then subjected to the effects of drought stress. The plant on the left was inoculated with MycoApply® mycorrhizal fungi at plug stage, and the plant on the right was not. The treated plants resisted wilt for 24-48 hours longer than untreated.

FEATURES

Mycorrhizal Applications has the largest diversity of Endo- and Ectomycorrhizal fungi commercially available.

Fertilizer usage can be reduced by one-third by using MycoApply® inoculum.

Watering frequency can be reduced by using MycoApply® inoculum.

Flowering, fruiting, and overall plant vitality will increase with the use of MycoApply® mycorrhizal inoculum.

ADVANTAGES

MycoApply® products are available for almost every plant species and variety you grow.

Fertilizer and application costs will be reduced.

Drought tolerance will increase, reducing water and labor costs.

Plant quality and vitality will increase, resulting in more resilience during shipping, better shelf-life, and better sell through.

BENEFITS

Plant quality and health will improve for every variety grown in your greenhouse with the correct MycoApply® product applied appropriately.

Greenhouse production costs can drop, plant quality can improve, and profits can increase.

Greenhouse water efficiency will increase and sustainability can improve, increasing profits.

Retail sell through can increase due to improved plant quality, as well as increased consumer satisfaction with grower and retailer.



✓ Increase Drought Protection

Greater root mass and vigor = Greater stress tolerance

✓ Reduce Production Costs

Increased water absorption and nutrient utilization reduce the need for fertilizers and irrigation

✓ Quicker Establishment

Mycorrhizae give your plants a head start leading to accelerated rooting and more successful outplanting

✓ Healthy Soil Biology

Re-establish the living soils and symbiotic relationships critical for sustainable performance

✓ Better Nutrient Uptake

Mycorrhizae not only increase root mass and surface area, but also release powerful enzymes into the soil that dissolve tightly bound soil nutrients for plant utilization

Recommended Greenhouse Products

MycoApply® Endo

- Granular - mixable with soil
- 4 species Endomycorrhizal fungi:
Glomus intraradices, *G. mosseae*,
G. aggregatum, & *G. etunicatum*
- 60,000 Endomycorrhizal Propagules per lb.
- Available in 40 lb. Bags



MycoApply® Ultrafine Endo

- Suspensible Powder (can pass a #50 screen)
- 4 species Endomycorrhizal fungi:
Glomus intraradices, *G. mosseae*,
G. aggregatum, & *G. etunicatum*
- 130,000 Endomycorrhizal Propagules per lb.
- Available in 20 lb. Bags



MycoApply® Soluble MAXX

- Suspensible Powder (can pass a #50 screen)
- 9 species Endomycorrhizal fungi:
Glomus intraradices, *G. mosseae*, *G. aggregatum*, *G. etunicatum*,
G. deserticola, *G. clarum*, *G. monosporum*,
Paraglomus brasilianum, & *Gigaspora margarita*
- 10 species Ectomycorrhizal fungi:
Rhizopogon villosulus, *R. luteolus*, *R. amylopogon*, *R. fulvigleba*,
Pisolithus tinctorius, *Scleroderma cepa*, *S. citrinum*,
Suillus granulatus, *Laccaria bicolor*, & *L. laccata*
- 30,000 Endo & 1.5 billion Ectomycorrhizal Propagules per lb.
- 12 species Bacteria, 2 species Trichoderma and specially formulated amendments 1-0.5-5
- Injectable, mixable, or soil drench



A Subsidiary of VALENT BIOSCIENCES.

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