

Mycorrhizal Applications

for NURSERIES

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 provide, nursery managers can re-establish 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 nursery 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 nursery 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.



Control - Not Treated | Treated with MycoApply®

These two apple tree root systems are from trees of the same age, raised in identical conditions, however, the tree on the right was inoculated with MycoApply® mycorrhizae, and the tree on the left was not.

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 nursery with the correct MycoApply® product applied appropriately.

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

Nursery 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 rooting mass and surface area, but also release powerful enzymes into the soil that dissolve tightly bound soil nutrients for plant utilization

Recommended Nursery Products

MycoApply® Endo

- Granular - mixable with soil
- 4 species Endomycorrhizal fungi:
Glomus intraradices, *G. mosseae*,
G. aggregatum, & *G. etunicatum*
- 60,000 Endo & 110 million Ecto Propagules per lb.



MycoApply® Endo/Ecto

- Granular - mixable with soil
- 4 species Endomycorrhizal fungi:
Glomus intraradices, *G. mosseae*,
G. aggregatum, & *G. etunicatum*
- 7 species Ectomycorrhizal fungi:
Rhizopogon villosulus, *R. luteolus*, *R. amyloporum*,
R. fulvigleba, *Pisolithus tinctorius*, *Scleroderma cepa*, & *S. citrinum*
- 60,000 Endo & 110 million Ecto Propagules per lb.



MycoApply® Ultrafine Endo

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



MycoApply® Micronized Endo/Ecto

- Suspendable Powder (can pass a #50 screen)
- 4 species Endomycorrhizal fungi:
Glomus intraradices, *G. mosseae*,
G. aggregatum, & *G. etunicatum*
- 7 species Ectomycorrhizal fungi:
Rhizopogon villosulus, *R. luteolus*, *R. amyloporum*, *R. fulvigleba*,
Pisolithus tinctorius, *Scleroderma cepa*, & *S. citrinum*
- 100,000 Endo & 110 million Ecto Propagules per lb.



A Subsidiary of VALENT BIOSCIENCES.

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