

Mycorrhizal Applications for FORESTRY

Why are Mycorrhizae Important?

Mycorrhizal fungi are essential to living soils, and allowed plants to colonize the non-aquatic surface of our planet over 460 million years ago. Approximately 95% of all plant species form symbiotic relationships with beneficial mycorrhizal fungi; however, human activity, wildfire, and intensive management practices have depleted many mycorrhizal populations. With the MycoApply® products we provide, forest managers can re-establish these essential microbes and benefit from this age-old symbiotic relationship to increase transplant survivability. Re-establishing living soils promotes strong roots, helps reduce the need for expensive soil inputs, increases tree uniformity and vigor, and ultimately results in healthy forests.

The use of beneficial mycorrhizal fungi gives conifer nurseries and forestry managers a new tool to improve tree health and quality, and experience maximum regeneration success and ultimately increased tree growth and forest product yield.

MycoApply® Benefits for Forestry Nurseries

Multiple mycorrhizal species in MycoApply products provide maximum benefits to trees of all kinds. MycoApply mycorrhizae are suitable for most trees, whether ectomycorrhizal (conifers, oak, etc.) or endomycorrhizal (maples, acacia, ash, etc.).

Mycorrhizal colonization results in a significant increase in a tree's ability to absorb soil nutrients, and can be established during propagation or through soil drench.



Treated with MycoApply®

Control, Not Treated



MycoApply® Benefits:

- ✓ **Drought Protection**
Greater root mass and vigor = Stress tolerance
- ✓ **Reduces Loss and Die-off**
Increased water absorption and nutrient utilization reduce the need for inputs and increase survivability
- ✓ **Quicker Establishment**
Mycorrhizae increases your trees' survivability with 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 absorptive surface area, but also release powerful enzymes into the soil that dissolve tightly bound soil nutrients for plant utilization

MycoApply® Application Options

Drench Application: MycoApply suspendable powders can be added to water and drenched into the tree or plug's root zone.

Soil/Media Incorporation: All MycoApply products can be mixed with soil or growing media prior to planting. Granular products are particularly well suited for this application method.

Others: Contact our team to discuss the best application method for your production. The goal is to create physical contact between the MycoApply active ingredient and the growing or emerging roots.

Recommended MycoApply® Forestry Products:

Custom Ecto Liquids for Conifers

- For Conifer Nursery End Users
- 5 species Ectomycorrhizal fungi:
Rhizopogon villosulus, *R. luteolus*, *R. amylopogon*, *R. fulvigleba*, & *Pisolithus tinctorius*
- 2 Formulations/Concentrations Available:
 - 100k seedlings per Quart
 - 250k seedlings per Quart
- Available in Quart Bottles

Custom Ecto Powders

- Custom Ectomycorrhizal Powder Formulations
- 10 species Ectomycorrhizal fungi available:
Rhizopogon villosulus, *R. luteolus*, *R. amylopogon*, *R. fulvigleba*, *Pisolithus tinctorius*, *Scleroderma cepa*, *S. citrinum*, *Suillus granulatus*, *Laccaria bicolor*, & *L. laccata* (subject to inventory availability)
- Pricing based on species and number of plants (subject to minimum order requirements)

MycoApply® Endo/Ecto

- Granular Formulation
- 4 species Endomycorrhizal fungi
Glomus intraradices, *G. mosseae*, *G. aggregatum*, & *G. etunicatum*
- 7 species Ectomycorrhizal fungi
Rhizopogon villosulus, *R. luteolus*, *R. amylopogon*, *R. fulvigleba*, *Pisolithus tinctorius*, *Scleroderma cepa*, & *S. citrinum*
- 60,000 Endo & 110 million Ecto Propagules per lb.
(132.4 Endo & 242,509 Ecto per gram)
- Available in 40 lb. Bags



MycoApply® Ultrafine 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. amylopogon*, *R. fulvigleba*, *Pisolithus tinctorius*, *Scleroderma cepa*, & *S. citrinum*
- 130,000 Endo & 110 million Ecto Propagules per lb.
(286.8 Endo & 242,509 Ecto per gram)
- Available in 1 lb. Bags and 20 lb. Bags



A Subsidiary of **VALENT BIOSCIENCES.**

CONTACT US

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