



Quick Facts:



Product Name:
MycoApply® Endo/Ecto

Formulation:
Granular
Endomycorrhizal and
Ectomycorrhizal Fungi

Concentration:
60,000 Endo & 110 million
Ecto Propagules per lb.
(132.4 Endo &
242,509 Ecto
Propagules per gram)

Packaging Options:
40 lb. Bags
120 lb. Bulk Barrels
300 lb. Bulk Barrels
1,000 lb. Bulk Tote Bags

Applications & Uses:
Horticulture, Landscaping,
Propagation, Arbor Care,
Turf, Forestry, Restoration,
and Erosion Control



Index:

1.0	Overview	5.0	Physical Properties
2.0	Application Instructions	6.0	Storage & Handling
3.0	Guaranteed Analysis	7.0	Warranty & Disclaimer
4.0	First Aid		

1.0 Overview:

MycoApply® Endo/Ecto is a granular mycorrhizal inoculum consisting of 4 species of endomycorrhizal fungi and 7 species of ectomycorrhizal fungi. About 95% of the world's plant species form symbiotic relationships with at least one of these types of symbiotic soil fungus. These beneficial fungi greatly increase the effective rooting area of plants, thereby enhancing plant growth, vigor, and tolerance of environmental extremes. MycoApply® Endo/Ecto is a granular material containing mycorrhizal propagules, which colonize roots and extend into the surrounding soil forming an essential link between plants and soil resources. Increasing the rooting area allows improved access to water and nutrients, promoting plant quality and crop performance.

2.0 Application Instructions:

MycoApply® Endo/Ecto is a granular mycorrhizal inoculant that can be banded under seed, worked into seedbeds, placed under cuttings, blended into potting media, or sprinkled on roots at time of transplant. Use higher rates for propagation or high-stress circumstances.

The goal is to create physical contact between the inoculant and the growing roots.

Restoration	Inoculum can be hydromulched or banded in rows with seed during planting at a rate of 15 to 22 lb/a (16.81 to 24.66 kg/ha). Use 40 to 60 lb/a (44.83 to 67.25 kg/ha) to broadcast or rototill before planting.
Turf	Apply during installation or aerification. Rate is 0.1 to 0.25 lb/1,000 ft ² (0.49 - 1.22 kg/1,000 m ²).
Nurseries and Greenhouses	Inoculum can be mixed into planting soil/media before/during filling cavities, pots, or trays. May be mixed with mechanical equipment that allows the passage of a #8 screen (2.5 mm or smaller particles). Mix at a rate of 1 to 2 lb/yd ³ (0.59 to 1.19 kg/m ³) (use higher rate for propagation trays or other small cells).
Plantings	Apply in furrow at a rate of 0.17 oz/ft (15.8 g/m) of row. Apply to cuttings at a rate of 0.085 oz (2.4 g) under each cutting. Apply to potted plants/transplants at a rate of 0.5 to 1 oz/gal (3.74 - 7.49 g/L) size pot. Apply to Balled and Burlapped trees and shrubs at a rate of 0.5 to 1.5 oz/in (5.58 to 16.74 g/cm) of stem caliper.

Key Benefits:

Root System Growth

- Mycorrhizal fungi support faster plant establishment
- Mycorrhizal hyphae access water and nutrients beyond the root zone and deliver them to the plant's vascular network
- Increases root absorption area
- Increases overall root biomass



Nutrient Efficiency

- Mycorrhizal hyphae absorb and actively deliver nutrients directly to the roots
- Improves utilization of soil nutrients including:
 - Nitrogen
 - Phosphorus
 - Potassium
 - Micronutrients



Water Absorption

- Mycorrhizal hyphae absorb and transport soil moisture from beyond the root zone to the plant's roots
- The mycorrhizal symbiosis increases the plant's effective water utilization capability:
 - Improved tolerance to stress
 - Greater resistance to drought



3.0 Guaranteed Analysis:

CONTAINS NON-PLANT FOOD INGREDIENTS

Soil Amending Guaranteed Analysis

Total Active Ingredients:.....0.06%

Endomycorrhizal fungi: (60,000 Propagules per lb. Total)

Glomus intraradices, *G. mosseae*, *G. aggregatum*, *G. etunicatum* (33.1 prop/g each)

Ectomycorrhizal fungi: (110,000,000 Propagules per lb. Total)

Rhizopogon villosulus, *R. luteolus*, *R. amylopogon*, *R. fulvigeleba* (2,750 prop/g each)

Pisolithus tinctorius (220,509 prop/g)

Scleroderma cepa, *S. citrinum* (5,500 prop/g each)

Total Inert Ingredients:.....99.94%

Clay (as carrier)

“This Product is not a Plant Food”

Information regarding the contents and levels of metals in this product is available on the internet at: <http://www.aapfco.org/metals.html>

4.0 First Aid:



Danger: Do not handle until all safety precautions have been read and understood. Do not breathe dust. If exposed or concerned get medical advice/attention. Dispose of contents/container in accordance with local/regional/national/ international regulations.

First Aid Measures

If on Skin:	Wash with soap and water. Then apply hand lotion. Exposure to skin may cause mild irritation and dry skin.
If in Eyes:	Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
If Swallowed:	If used material is ingested, get medical attention. If large amount of unused material is swallowed, get immediate medical attention.
If Inhaled:	Supply fresh air. If irritation or other symptoms occur, get medical attention.

5.0 Physical Properties:

- 5.1 **State:** Granular
 5.2 **Appearance:** Tan to Dark Brown
 5.3 **Odor:** Mild

6.0 Storage & Handling:

- 6.1 **Storage:** Store in a dry, cool, well ventilated area. Keep sealed in a properly labeled container. Do not expose to temperatures in excess of 140°F or 60°C.
 6.2 **Handling:** Minimize dust generation and accumulation. Use outdoors, or ensure good ventilation/exhaustion when used indoors.
 6.3 **Disposal:** Dispose of all waste in accordance with local, state, and federal regulations.

7.0 Warranty & Disclaimer:

To the extent consistent with applicable law, seller makes no warranty, express or implied, of merchantability, fitness, or otherwise concerning the use of this product other than as indicated on the label. To the extent consistent with applicable law, user assumes all risk of use, storage, or handling not in strict accordance with accompanying directions.