



EcoLive™ Certificate of Compliance

Patents Pending

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Sunmark Environmental Services, LLC certifies that EcoLive™ contains the following properties and characteristics

Description -

EcoLive™ Organics Mycorrhizae is a natural highly concentrated organic material with an Endo/Ecto blend of mycorrhizal fungi. This unique combination provides a critical linkage between the plant, root, and soil. Blended into a seed mixture, EcoLive™ will increase germination, improve soil micro-nutrients, and produce a more sustainable and healthy ecosystem. Today there is a strong sense that man must be the one to give nutrients to plants, but in reality plants were designed with the capabilities to recycle nutrients amongst themselves in nature. Mycorrhizal fungi are an association, or symbiotic relationship, between plants and fungi that colonize the plant roots during periods of active growth. The benefit of this association is characterized by increased growth and yield, and ecologically, by improved plant fitness (i.e., reproductive ability, drought tolerance, plant health). In infertile soils, nutrients taken up by Mycorrhizal fungi can lead to improved plant growth and reproduction. As a result, Mycorrhizal plants are often more competitive and better able to tolerate environmental stresses than are nonmycorrhizal plants. EcoLive's™ high CEC, nutrient retention, hydraulic conductivity, and its increased water holding capacity, creates a natural sustainable ecosystem, with out the use of chemical fertilizers.

Specifications -

EcoLive should be applied at a rate of 65 pounds per acre or 1.5 pounds per 1,000 square feet. **EcoLive** can be applied dry with a broadcast spreader or added to any hydro-mulch material, seed, and tackifier. EcoLive can be incorporated during construction, or by aerification. EcoLive's mycorrhizal propagules are then incorporated into the rooting zone where they will be effectively utilized. Incorporating EcoLive during aerification is an appropriate way of developing a mycorrhizal network in the soil even for golf greens not inoculated during construction. Natural areas, turf areas, woody plants areas, generally contain an array of mycorrhizal fungal species. The proportions and abundance of mycorrhizal species often declines following any disturbance. Not all mycorrhizal fungi have the same capacities and tolerances. Because of the wide variety of soil, climatic, and biotic conditions characterizing natural environments, it is improbable that a single mycorrhizal fungus could benefit all species and adapt to all conditions. For example, the types and activities of mycorrhizal fungi associated with grasses are often different than those associated with woody plants. Mycorrhizal fungi have differing abilities to produce antibiotics that retard soil pathogens. Likewise, some mycorrhizal fungi are better at producing enzymes that facilitate mineral uptake such as phosphorous and iron. Still other mycorrhizal fungi can access organic forms of nitrogen. EcoLive contains several mycorrhizal species that provide a wide range of benefits to the plant.

Technical Information	
Endomycorrhizal fungi: 100,000 propagules Per Pound	Glomus intraradices Glomus mosseae Glomus aggregatum Glomus etunicatum
Ectomycorrhizal fungi: 110 Million propagules Per Pound	Rhizopogon villosullus Rhizopogon luteolus Rhizopogon amyloppgon Rhizopogon fulvigleba Pisolithus tinctorius Scleroderma cepa Scleroderma citrinum

Composition	
Histosol Organics Pelletized	42.15% +/- 7%
Histosol Organics Fines	29.46% +/- 9%
Endo/Ecto Mycorrhizae	23.39% +/- 12%

Packaging and Shipping Data	
Bag Size	Variable
Bag Weight	Variable
Pallet	40 Bags
Full Truck	22 Pallets, 880 Bags
Packaging	Moisture Resistant Bags

EcoLive™ Application Rate	
Per Acre	65 lbs
Per 1,000 Square Feet	1.5 lbs

WARRANTY

Sunmark Environmental Services, LLC warrants that its products are free from defects and will perform as stated in this document. Sunmark Environmental Services, LLC will not warrant that the product will perform under unlimited circumstances that are caused by variables such as the soil surface condition, installation methods, and/or weather conditions.