

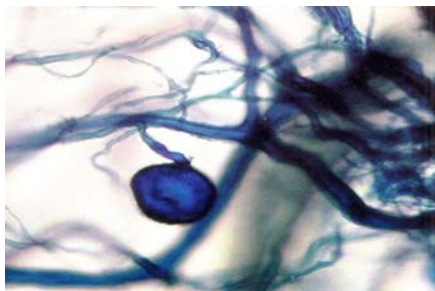
ROOT VIGOR

SPECIAL TURF AND ORNAMENTAL FORMULA

FEATURES AND BENEFITS

ROOT VIGOR is ideal for all plants including turf, trees, shrubs, and flowers, because it contains 11 mycorrhizal fungi and 5 anti-fungal bacteria to promote root growth and protect the roots from disease. These 8 species of Endomycorrhizal and Ectomycorrhizal fungi are well suited to a variety of soils, climates and plants including herbaceous plants, shrubs, ornamentals, fruit and nut trees, vegetables, and turf grass.

The Endo species are *Glomus intraradices*, *G. etunicatum*, *G. aggregatum*, and *G. mosseae*. The Ecto species are *Pisolithus tinctorius*, *Rhizopogon villosulus*, *R. luteolus*, *R. amylopogon*, *R. fulvicleba*, *Scleroderma Cepa*, and *S. citrinum*. These beneficial fungi colonize plant roots, expand into the surrounding soil, and greatly increase the roots ability to



absorb water, nutrients, and improve yields. The mycorrhizal fungi excrete powerful chemicals that dissolve mineral nutrients, absorb water, retard soil pathogens, and glue soil particles together into porous structure. In return, the mycorrhizal fungi receive sugars and other compounds from plants to fuel mycorrhizal activities. Both plant and fungus benefit from this "symbiotic relationship". This is a major reason why plants from natural undisturbed areas can thrive for decades and centuries without irrigation, fertilizers and pesticides. The mycorrhizal network is the original world wide web. The 5 anti-fungal bacteria, *Bacillus pumilus*, *B. megaterium*, *B. subtilis*, *B. licheniformis*, *B. amyloliquefaciens* have been included to fight off soil pathogens and colonize the root zone with biodiversity.

THE ROOT VIGOR ADVANTAGE

ROOT VIGOR stimulates root growth and feeds the plant by releasing essential nutrients as nature intended.



PROVEN BENEFITS

Healthy Root Development

- Promotes lateral root development.
- Enhances root growth, creating a well developed root system which supports a healthy leaf canopy.

Healthy Turf

- Enhances protein synthesis and plant enzymes for optimum photosynthesis production and respiration.
- Promotes leaf health by enhancing stress resistance.
- Promotes a health leaf canopy, which supports healthy root development.



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PROVEN BENEFITS

Disease Suppressive Soil

- Incorporating microorganisms directly into soil to counteract disease is what makes soils highly productive.

Strong Plant Structure

- Facilitates production of necessary sugars, proteins, and organic acids creating building blocks for healthy growth and development.
- Helps stabilize cell membranes, proteins and chlorophyll in plants delaying aging or senescence.
- Enhances plants ability to manufacture defensive proteins.



- Stimulates production of phytoalexin, compounds known to combat fungal infections.
- Improves ability to recover from environmental stress.
- Helps generate peroxidase compounds, known to help fortify against pests and diseases.

EASY APPLICATION

ROOT VIGOR is designed to supplement a sound turf management program. Apply twice per year.

- **TURF AND GROUND COVER:** Use 10 to 15 pounds per 1000 square feet and water thoroughly.
- **TREES AND SHRUBS IN POTS:** Apply 7-15 pounds of **ROOT VIGOR** per yard of potting mix.
- **VEGETABLES AND FLOWERS:** Apply 2 pounds per 100 square feet and work into the soil.
- **ROOT VIGOR** is compatible with most fertilizers, fungicides and pesticides, but the benefits of **ROOT VIGOR** will be reduced when applied during the use of strong chemicals.