



What Is *Mycorrhiza?*



Mycorrhiza are naturally occurring beneficial fungi that colonize to the plant root system, spreading filaments inside and outside of the roots, working as an extension to the roots for nutrient conversion and delivery to the plant. Soil fumigation, fungicides, pesticides, cultural programs and overuse of synthetic fertilizers can destroy mycorrhizal fungi.

Functions of Mycorrhiza:

- The mycelia of mycorrhiza can seek out nutrients from a greater soil area than plant roots since they are smaller than the smallest root and contain a larger surface area for nutrient absorption. This process can facilitate the transfer of nutrients from the soil, at relatively remote distances from the root, to the root at rates far exceeding those that would be possible by the roots alone.
- Works in harmony with roots by taking excess sugars, starches, proteins, and lipids from photosynthesis in exchange for increased mineral nutrients from the soil.
- Mycorrhiza can extract mineral ions trapped by other elements and soil conditions since the cell membrane chemistry of fungi are different from that of plant roots which are generally incapable of accessing these trapped nutrients.
- Physically improves texture of the soil around roots either by separating clay platelets or clumping sand particles increasing moisture retention and oxygen exchange.
- Plants are more resistant to drought due to the improved water uptake capability of the fungal system and the improvements to the soil structure around the roots.
- Supports other beneficial soil organisms, such as valuable nutrient-fixing bacteria.
- Produces beneficial plant hormones.

Soil Restore, **Turf Restore**, and **Advantage Turf Restore** all contain beneficial Mycorrhiza. For best results, use with other NBN nutrient and microbial products. Safe for all soils, turf, and plants.

Contact your local 3 Tier distributor or go to www.3tiertech.com for more information about NBN Products and uses.