

Dry
Technology™

THE LANDSCAPER'S BioNUTRITION™

3-0-3 GRANULAR WITH MYCORRHIZAL TECHNOLOGY

FOR TREES AND PLANTINGS

- NOW CONTAINS ENDO & ECTOMYCORRHIZAL
- PACKED IN EASY TO USE 8OZ PACKS
- CONTAINS VITERRA® GELSCAPE® POLYMER GEL

GUARANTEED ANALYSIS:

PLANT FOOD INGREDIENTS:

Total Nitrogen (N)	3%
0.5% Urea Nitrogen	
2.5% Slowly Available Water Soluble Nitrogen*	
Soluble Potash (K ₂ O)	3%
Iron (Fe)	2%

Derived From: Methylene Urea, Urea, Ferrous Sulfate, Condensed Fermented Plant Extracts, Fish Meal.

*2.5% slowly available Nitrogen from Methylene Urea

ALSO CONTAINS NON PLANT FOOD INGREDIENTS:

Bacteria:	.475 million CFU
Bacillus subtilis	.7.5 x 10 ⁷ CFU per lb.
Bacillus licheniformis	.2.5 x 10 ⁸ CFU per lb.
Bacillus amyloliquefaciens	.7.5 x 10 ⁷ CFU per lb.
Bacillus pumilus	.7.5 x 10 ⁷ CFU per lb.
Yeast (Saccharomyces cerevisiae)	4.5 x 10 ¹⁰ CFU per lb.
Endomycorrhizal spores	.16,000 spores / lb.
Glomus intraradices	.4,000 spores per lb.
Glomus mosseae	.4,000 spores per lb.
Glomus aggregatum	.4,000 spores per lb.
Glomus etunicatum	.4,000 spores per lb.
Ectomycorrhizal spores	.88 million / lb.
Pisolithus tinctorius	.80 million spores per lb.
Rhizopogon villosulus	.1 million spores per lb.
Rhizopogon amylopogon	.1 million spores per lb.
Rhizopogon fulvigleba	.1 million spores per lb.
Rhizopogon luteolus	.1 million spores per lb.
Scleroderma cepa	.2 million spores per lb.
Scleroderma citrinum	.2 million spores per lb.

*Colony Forming Units

SOIL AMENDING INGREDIENTS

15%	Humic Acid (derived from Leonardite)
10%	Kelp Extract (Ascophyllum nodosum)
1.5%	Natural Wetting Agent (Yucca schidigera)
9.5%	Total L-Amino Acid
0.44%	Glycine
1.8%	L-Glutamic Acid
0.56%	L-Aspartic Acid
0.90%	L-Alanine
0.88%	L-Proline
0.96%	L-Leucine
0.36%	L-Lysine
0.44%	L-Serine
0.40%	L-Arginine
0.65%	L-Threonine
0.46%	L-Valine
0.40%	L-Phenylalanine
0.32%	L-Isoleucine
0.30%	L-Histidine
0.18%	L-Methionine
0.34%	L-Tyrosine
0.14%	L-Cystine

INERT INGREDIENTS

25%	Clay
20%	Potassium Propenoate-Propenamide Copolymers

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- PREVENTS TRANSPLANT LOSS
- 475 MILLION BACILLUS SUBTILIS SPORES
- L-AMINO ACID BASED

PRODUCT DESCRIPTION

The Landscaper's BioNutrients now with Endo and Ecto Mycorrhizal is formulated to reduce transplant stress of trees, large ornamentals and other landscape materials. It will provide biologically active soil conditioners, natural wetting agent and rick organic supplements with Rhizosphere beneficial bacteria and Endo and Ecto Mycorrhizal, which are a research-selected mixture of mesophiles and thermophiles that grow and metabolize in the soil in temperature ranges of 45° - 140°F. Mycorrhizal will improve uptake of nutrients, minerals and absorption of water. The Bacillus strains produce a variety of enzymes, PGRs and metabolites that aid in the breakdown of organic fertilizers and organic matter. The Landscaper's BioNutrients can be applied to any tree or plant species to produce healthier root system, overcome urban and transplant shock. Bacillus rapidly colonize the root's surface of the developing root system (niche occupation) and stimulate root growth, maintain healthy root system and crowd out invading pathogens.

Landscaper's BioNutrients contains "Viterra® Gelscape®" a unique water-control polymer gel that absorbs and holds water for gradual release to plants.

The Landscaper's BioNutrients contains 17 natural L-amino acids. They act as a natural chelating / complexing agent for cation nutrients. They also act as plant growth regulators and provide a food source for soil microbes. All amino acids have the potential to decompose into amines that go into solution in the form of plant-available nitrogen.

TRANSPLANTS:

Use The Landscaper's BioNutrients to treat the root zone of trees, shrubs, annuals and perennials at the time of planting. This product contains beneficial Bacillus bacteria that will quickly colonize the root surface improving nutrient uptake, stimulating new root growth and protecting roots against stress. Simply sprinkle The Landscaper's BioNutrients into the transplanting hole, or work into soil.

DIRECTIONS FOR TRANSPLANTS:

See application rate chart.

1. Mix Landscaper's BioNutrients into soil backfill in contact with root ball
2. Fill hole with treated soil
3. Pack soil firmly and water well.

PLANT MATERIALS:

The Landscaper's BioNutrients can be used on all plant species including woody ornamentals such as Rhododendron's, Azaleas and Laurels. The Landscaper's BioNutrients can be used on all types of trees including deciduous, evergreens, fruit, oaks, and shrubs. Apply to all types of landscaping materials including

annuals, perennials, vines, vegetables, baskets and pots. Landscaper's BioNutrients can be used in combination with both non-systemic and systemic fungicides.

Landscaping Plantings		
Application	Rate	Notes
Shrubs & Woody Ornamentals	16 oz. per 100 square feet	Remove mulch. Work into soil with hoe to a depth of 4 inches or more. Replace mulch.
Vegetable Plantings	8 oz per 20 linear feet	Loosen soil prior to planting. Work Companion into soil around plant.
Flower Beds Annuals & Perennials	16 oz. per 100 square feet	New Plantings: Loosen soil prior to planting. Sprinkle Companion over ground area and work into soil. Existing Plantings: Gently work into soil around plants.
Newly Seeded Lawns	16 oz per 1,000 square feet	Prior to seeding, work into top 2"- " of soil.
Laying Sod	16 oz per 1,000 square feet	Mix uniformly into top 2" of soil
Poor Soil Conditions, Stressed Plants	32 oz per 1,000 square feet	Rototill thoroughly into top 5"-6" of soil
Tropicals & Foliage Plants	1 oz per 1-2 gal pot 4 oz per 3-7 gal pot 8 oz per 20-30 gal pot	For both interior and exterior scapes. Work gently into soil without disturbing root system
Hanging Baskets & Containers	1 oz. per 1 gallon basket or container	Gently mix into media around plants without disturbing root systems.

STORAGE AND HANDLING:

Store in normal warehouse conditions in dry place. Product shelf life is in excess of 2 years .

PACKAGE SIZES

8 oz pack - 24 packs / display tray / box

8 oz pack - 30 in Ez-Store Pail

5 lb, 20 lb and 50 lb bulk in Ez-Store Pail

200 lb bulk in Drum

CAUTION: Keep out of reach of children. In case of contact with eyes, flush immediately with copious amounts of water. Contact a physician. Do not take internally.

Tree, Shrub and Palm Rates

- Use 4 ounces per caliper inch or per 1 foot of root ball.
1. Mix evenly into the upper 8-10 inches of the backfill soil and no more than 8-10" away from the root ball.
 2. Pack the treated backfill firmly around the root ball.
 3. Mulch and water to soil saturation.

Size	Landscaper's Per plant size
1 Gallon	1 oz
2 Gallon	2 oz
3 to 7 Gallon	4 oz
7 to 15 Gallon	4 oz
20 to 30 Gallon	8 oz
24 inch B&B / Box	8 oz
36 inch B&B / Box	12 oz
48 inch B&B / Box	16 oz
60 inch B&B / Box	19 oz
1 inch caliper	4 oz
2 inch caliper	8 oz
3 inch caliper	12 oz
4 inch caliper	16 oz
5 inch caliper	20 oz
6 inch caliper	24 oz
7 inch caliper	28 oz
8 inch caliper	32 oz
24 inch spade	6 oz
30 inch spade	12 oz
44 inch spade	16 oz
60 inch spade	24 oz

Manufactured By:

