



An Engineered **SOIL**
Amendment, **BIO-FERTILIZER** &
ROOT Inoculate

Contains: **BioCHAR Carbon, AXIS Diatomaceous Earth, Seaweed, Humates, Nutrients, Mycorrhiza, L-Amino Acids, Fulvic Acid, PGI** (Plant Growth Inducing Rhizobacteria)



The "Plant / Soil / Biological Pyramidal Matrix" is the foundation of all dynamic and sustainable ecosystems. Plants require healthy soil in order to grow and survive in landscape outplantings. A healthy soil is supported by a vast world of microbes: bacteria and fungi that live in or around the plant system. Microbes support plant health by increasing the availability of nutrients and in order to do so on a sustainable basis, require an aerobic, microporous-habitat. The porous habitat is supported by the Axis® Diatoms and BioChar contained exclusively in **BioPlex ULTIMATE ORNAMENTAL Installation G™**. Aside from enhancing plant root growth, health and vigor, Rhizobacteria are instrumental in neutralizing toxic compounds in the soil, making plants more resistant to disease, heat, excessive moisture and drought. PGI's (Plant Growth Inducing Rhizobacteria) also help resist pathogens and predators that could be potentially harmful to plant establishment and longer term health and vigor.

Obviously, plants don't eat and have stomachs like mammals; however they do have roots, and many of the symbiotic functions that occur in stomachs are replicated on or near the roots of most plants. Plant exudates (secretions) are released into the rhizosphere (the area of soil dominated by a plants root system), which becomes both an environment and food source for a wide range of microbes that form a symbiotic, sustainable nutritional relationship with the host plants.

BioPlex ULTIMATE ORNAMENTAL Installation G™ is a very UNIQUE fertilizer, probiotic root inoculant and a soil amendment. Extremely rich with high levels of carbon and humates to feed the probiotic soil microbial cultures and is non-burning, safe for use on all plant materials. Over the past 30 years, BioPlex Organics through ongoing research, has clearly identified areas of targeted plant, soil, and root responses that can help provide a valuable added measure of plant support necessary to help all ornamentals successfully transition the critical first 12 to 24 month transplant establishment period necessary for "sustainable plant health".

DIRECTIONS FOR USE:

Application Guidelines for Plant Installation

Ornamental Trees	1 1/4 lb per EACH 18-24" plant Height or Spread 1/2-1 lb per 1" caliper for B&B
Spade Dug Ornamental Trees	2-4 lbs per 1" caliper Trunk Diameter
Ornamental Shrubs	1/2 lb per EACH 1 gallon size container or each 18-24" plant Height or Spread
Annual/ Perennial Flower Beds	10-15 lbs per 1000 square feet
General Seed Beds	5-15 lbs per 1000 square feet
Tubers & Bulbs	1 Teaspoon per tuber/bulb 15-20 lbs per 1000 square feet
Potting Soil Mix	15-20 lbs per cubic yard
New Sod/Seed Lawns	10-20 lbs per 1000 square feet
Hydro-Seeding Tank Mix	10-20 lbs per acre

After Care Landscape Maintenance

(Surface Applied or Incorporated in Soil or Under Mulch)

Trees & Shrubs	1-2 lbs per 1" caliper Trunk Diameter
(or)	1-2 lbs per 18-24" Plant Height
(or)	1-2 lbs per 18-24" Plant Spread
Ornamental Beds	10-15 lbs per 1000 square feet
Annual Beds	3-5 lbs per 1000 square feet
Perennial Beds	5-7 lbs per 1000 square feet

Vertical Mulch Application-Remediation of Construction Compaction Damage

Ornamental Trees & Shrubs:

Auger holes on 3' centers, in 360° concentric circle formations 3 feet apart, starting 3-6 feet inside to 5-10 feet outside the outer branch canopy edge (drip-line). Auger holes 3 inches wide x 10 inches deep and fill the bored holes to soil surface level. It will require approximately 1.5 lbs of **BioPlex Ultimate Ornamental Installation G** to fill (1) 3" W x 10" D hole. (2) 20 lb bags will treat 250 sq. ft. area - 1 application.

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

Guaranteed Analysis:

Composted Poultry Litter	43.692%
Total Nitrogen (N):	3.0%
0.40% Ammoniacal Nitrogen	
0.03% Nitrate Nitrogen	
0.50% Water Soluble Nitrogen	
2.07% Water Insoluble Nitrogen*	
Available Phosphate (P2O5):	4.0%
Soluble Potash (K2O):	3.0%
Calcium (C):	3.0%

Derived From: Aerobically Composted Poultry Litter, Feather Meal, Seaweed Extract, Sulfate of Potash, Bone Char, Fish Emulsion
* Slow Release Nitrogen from Poultry Manure

BIOLOGICAL ACTIVE INGREDIENT(S):

Live Beneficial Microbes	0.028%
Arthrobacter globiformis 1X10 ⁸ CFU/gram	Brevibacillus brevis 1X10 ⁸ CFU/gram
Azospirillum brasilense 1X10 ⁸ CFU/gram	Cellulomonas fimi 1X10 ⁸ CFU/gram
Azospirillum lipoferum 1X10 ⁸ CFU/gram	Lysinibacillus sphaericus 1X10 ⁸ CFU/gram
Azotobacter chroococcum 1X10 ⁸ CFU/gram	Micrococcus luteus 1X10 ⁸ CFU/gram
Azotobacter paspali 1X10 ⁸ CFU/gram	Phanerochaete chrysosporium 1X10 ⁸ Prop./gram
Azotobacter vinelandii 1X10 ⁸ CFU/gram	Pseudomonas fluorescens 1X10 ⁸ CFU/gram
Bacillus amyloliquefaciens 1X10 ⁸ CFU/gram	Pseudomonas putida 1X10 ⁸ CFU/gram
Bacillus atropheus 1X10 ⁸ CFU/gram	Rhodobacter sphaeroides 1X10 ⁸ CFU/gram
Bacillus licheniformis 1X10 ⁸ CFU/gram	Rhodopseudomonas palustris 1X10 ⁸ CFU/gram
Bacillus megaterium 1X10 ⁸ CFU/gram	Rhodospirillum rubrum 1X10 ⁸ CFU/gram
Bacillus pumilus 1X10 ⁸ CFU/gram	Streptomyces griseus 1X10 ⁸ CFU/gram
Bacillus subtilis 1X10 ⁸ CFU/gram	Trichoderma reesei 1X10 ⁸ Prop./gram
Bacillus thuringiensis 1X10 ⁸ CFU/gram	

NON-PLANT FOOD INGREDIENT(S):

EctoMycorrhiza (11 Species)	0.175%
Rhizopogon villosullus	L. laccata (38 million prop./lb each)
R. luteolus	Scleroderma cepa
R. amylopogon	S. citrinum (189 million prop./lb each)
R. fulvigleba (95 million prop./lb each)	Suillus granulatus
Pisolithus Tinctorius (568 million prop./lb)	S. punctatipes (118 million prop./lb each)
Laccaria bicolor	

EndoMycorrhiza (9 Species)	0.105%
Glomus intraradices	G. deserticola
G. mosseae	Gigaspora margarita
G. aggregatum	Paraglomus Brasilianum
G. etunicatum (5,900 prop./lb each)	G. Monosporum (454 prop./lb each)
G. clarum	

Calcined Diatomaceous Earth (Axis®):	7.0%
Humic Substance:	26.25%
Fulvic acid:	3.0%
Ascophyllum nodosum seaweed:	2.0%
L Amino acid:	2.75%
BioChar (Carbon 88%):	15.0%

Derived From: Ascophyllum Nodosum, Humic Substance, Protein Hydrolysate, BioChar Carbon

Storage and Handling

Store product in a cool, dry environment, avoid excessive heat, moisture and prolonged exposure to direct sunlight. If you are only utilizing a portion of the bag be sure to secure it tightly before storing. Recycle bag or dispose of properly if recycling facility is unavailable. Wash hands thoroughly after handling product. Refer to MSDS for more details on product.

Warranty

BioPlex, Inc. warrants that this product conforms to the analysis on its label. When used in accordance with label directions, under normal conditions, this product is reasonably fit for its intended purposes. Since timing, method of application, weather, plant, and soil conditions, mixture with other chemicals, and other factors affecting the use of this product are beyond our control, no warranty is given concerning the use of this product contrary to label directions or under conditions which are abnormal or not reasonably foreseeable. The user assumes all risks of any such use.

Net Weight

20 lb. Bag (9.12 Kg)



114 Manheim St • Mt Joy, PA 17552 • BioPlex@EarthLink.net