

# Nitrogen Source, Critical for Nutrient Mobility & Metabolic Functions

Prevents Plant Decline During Seasonal Extremes & SUMMER STRESS



## BioPlex<sup>®</sup> TOTAL AMINO POWER+

STRESS MANAGEMENT & NITROGEN SUPPLEMENT

**BioPlex TOTAL AMINO POWER+** is an effective tool for: (1) preparing for—and surviving—anticipated periods of extreme environmental stress, (2) greening-up turf grasses emerging from dormancy, (3) speeding up rooting and establishment of new or oversewed greens, tees or fairway renovations, (4) early spring, mid-summer or fall, delivering a natural source of efficiently mobilized nitrogen throughout period of high heat stress or while seasonal chemotropic and phototropic plant responses are LESS optimal.

**BioPlex TOTAL AMINO POWER+** is an efficient, easily mobilized nutrient supplement built on new proprietary plant fermentation technology and has a 35.5% amino acid ingredient content that delivers the biochemical and bio-mechanical chemistries critical to active growth points. Naturally occurring nitrogen can be found in MANY places within the plant. Amino acids constitute the most abundant forms of soil nitrogen and also join with soil colloids to form stable unions that initiate improvements in the air and water infiltration characteristics of poorer and compacted soils. In addition, they help in the more rapid and efficient mobilization and translocation of nutrients - making 'amino acid' the ultimate foliar nutrient and carbohydrate activator and mobilizer. Not only are amino acids a great nitrogen source, they also affect the efficiency of other nutritional assets, in particular, micro-nutrients and trace minerals. Even the slightest micro-nutrient deficiency will affect the entire nutritional impact on plant health, growth and vigor (Liebig's Law).

Amino acids form the cellular building blocks that perform critical structural, transport and metabolic functions within the plant. As a result of elevated carbohydrate levels, turf grasses better tolerate: compaction, drought, disease, heat and accumulated soluble salts. University testing has shown that frequent low-dose foliar amino acid applications result in more predictable growth characteristics that results in more consistent putting green speeds.

Information regarding the contents and levels of metals in this product is available on the internet at [www.aapfco.org/metals.html](http://www.aapfco.org/metals.html)



### GUARANTEED ANALYSIS:

<b>Nitrogen (N)</b> .....	<b>3.0%</b>
2.89% Soluble Organic Nitrogen	
0.11% Nitrate Nitrogen	
<b>Magnesium (Mg)</b> .....	<b>0.5%</b>
0.5% Water Soluble Magnesium (Mg)	
<b>Manganese (Mn)</b> .....	<b>0.1%</b>
0.1% Chelated Manganese (Mn)	

*Derived from: Protein hydrolysate, Magnesium nitrate, Manganese EDTA.*

### NON PLANT FOOD INGREDIENT(S):

<b>Free Amino Acids</b> .....	<b>15.5%</b>
<b>Natural Amino Acids</b> .....	<b>20%</b>

*Derived from: Protein hydrolysate malt extract*

**WARNING: KEEP OUT OF THE REACH OF CHILDREN. DO NOT INGEST.** Avoid contact with skin and eyes. Wear appropriate protective clothing when using this product. Direct exposure may cause irritation to skin, eyes, and mucous membranes. In the event direct contact is made with skin, eyes, or other exposed body parts, **IMMEDIATELY** wash the contact area with copious amounts of clean water. Optimal storage temperatures, 40-80 degrees Fahrenheit.

**NOTICE: BioPlex Organics** warrants that the product conforms to its chemical description and is suitable for the purposes stated on the label when used in accordance with the directions under normal conditions of use. **BioPlex Organics** will not be held responsible for incidental or consequential damage resulting from the use of this product contrary to instructions or under abnormal conditions or under conditions and circumstances not reasonably foreseeable to **BioPlex Organics**.

**Net Contents:**  
**1.0 U.S. Gallon (128 Fl. Oz.) 3.875 Liters**

## Rates of Application

**GC Greens, Fairways & Tees, Cool & Warm Season Grasses, Lawn Care Maintenance, Sports Turf:** Used in **Stress Recovery**. Tank-mix at 2.0 fl. oz. concentrate per 1,000 sq. ft. and apply at a rate of 0.5-3 gallons of tank-mix per 1,000 sq. ft. Repeat every 3-6 weeks or sooner if required. Used to Improve Root Mass - Root, Tiller, Rhizome and/or New/Over Seeding . Tank-mix at 3-4.0 fl. oz. concentrate per 1,000 sq. ft. and apply at a rate of 0.5-3 gallons of tank-mix per 1,000 sq. ft. Repeat every 4-8 weeks throughout the active growth cycle. Used as a Nitrogen Supplement. Tank-mix at 4-6 fl. oz. concentrate per 1,000 sq. ft. and apply at a rate of 0.5-3 gallons of tank-mix per 1,000 sq. ft. Used alone, repeat every 3-4 weeks throughout the active growth cycle. Utilize as needed when supplementing a primary fertilizer input. Tank-mix compatible with most fertilizers and pesticide tank-mixes.

**Specialty Tank-Mix Combinations:** To increase plant function and more aggressively reduce thatch and inoculate soils with beneficial bacteria, tank mix at aforementioned rates with **BioPlex FULVIC POWER+** at 1.5 fl. oz. per 1,000 sq. ft. To combine with an NPK fertilizer for an extended green-up, grow-in or root mass response, combine it with **BioPlex 808 GREEN POWER+** at 3 fl. oz. per 1,000 sq. ft.

**Applied as a Nutritional Nitrogen Supplement for Deep Root Feed:** Tank-mix at 1 gallon per 100 gallons of water - treats 100-150 x 1" caliper trunk diameter.

**Applied as a Nutritional Nitrogen Supplement for Hydro-Seeding:** Depending on the nutritional requirements of your seed slurry composition, tank-mix 0.50 to 1.0 gallons per acre and apply at 20-60 gallons per acre. Use as a supplement to (1) one of other ingredient components in the overall tank-mix combination.

**Greenhouse & Nursery Grower:** Tank-mix 1-2 gallons per 100 gallons (1.25 - 2.5 fl. oz. per 1 gallon of water) and apply as a surface root drench or foliar drench. Injection: **Applied Daily** - Pre-mix 1 quart in enough water in a nurse-tank to inject @ 1:100 dilution per 20,000 sq. ft. area and apply through drip or spray to soil, growing media and/or foliage. **Applied 2X per Week** - Pre-mix 3 quart in enough water in a nurse-tank to inject @ 1:100 dilution per 20,000 sq. ft. area and apply through drip or spray to soil, growing media and/or foliage.

**Attention:** This product is tank mix compatible with most other products. Best practices suggest a compatibility test should be performed prior to use. Shake product prior to use. This product is intended as a supplement to a sound fertility program and may not, if used by itself, provide all the nutrients normally required by crops or other intended plants. Do not store in temperatures below 40°F.



Developed & Formulated by:

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