

Kick™

Soil Conditioner

EARTHWORKS NATURAL ORGANIC PRODUCTS, INC.

Kick is the *Ultimate Soil Conditioner* for the turf manager. This product was initially formulated in 1988 and is designed to help open tight soils and stimulate microbial activity. **Kick** will promote healthy root growth in both turf and ornamentals, reduce plant stress, break nutrient bonds in the soil and is an available food source for microbial populations. With over twenty raw materials, **Kick** is one of the most complete soil conditioners available. Use **Kick** as part of a regular liquid application program for very tight soils, sodium rich soils, or to help stimulate new plantings.

The EarthWorks Process

Manufacturing of the liquids involves first the availability of excellent water. We begin by softening the water, followed by deionization and finally reverse osmosis. The result is water that is absent of total dissolved solids, alkalinity, carbonates and conductivity. This allows for an aqueous medium that can be fully saturated with the diversity of ingredients that go into the **Kick** formula. The recipe is then loaded through a process called "stacking", which simply means using a formula that allows for ingredient compatibility by following a proper sequence of mixing, creating maximum saturation of the water by these nutrients. Finally, the products are micro-screened in order to create a non-plugging filtrate for trouble-free applications.

The EarthWorks Liquid Organics are the most complex formulas available. They are developed to work synergistically with each other and with other nutrient based products. Used on a "small but frequent" basis, **Kick** will become a staple in any turf management program.

EarthWorks™
Natural Organic Products

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800-732-8873
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soilfirst.com

Available in a 2 x 2.5 box, 30 and 55 gallon drums.

LIQUID ORGANICS

4 Carbohydrates

Humic Acids

Kelp Extracts

Yucca Extracts

Lauryl Sulfate

Trace Nutrients

Bio-Net

KickTM Soil Conditioner

Kick is the "Ultimate Soil Conditioner" that addresses the issues of compaction, drainage, adequate root pore space, microbial stimulation, and plant nutrition. The abundance of ingredients assures that roots are consistently nourished as well as provided with raw materials that assist in stimulating the eco-system surrounding the roots. **Kick** also aids in the removal of toxic levels of root damaging salts.

Yucca Schidigera Extract: A botanical extract from the inner bark of the Yucca Schidigera Cactus that provides emulsifying properties to make water "wetter"; also provides polysaccharides that act as a food source for soil micro-flora.

Coconut Oil Base Surfactant: A biodegradable emulsifier that loosens aggregates and allows water to move throughout the crumb structure.

Ammonium Lauryl Sulfate: An excellent wetting agent that acts as a soil penetrant, breaking hardpan and increasing capillary action of water.

Humic Acid: An alkaline extract of geologically concentrated humus, rich in organic acids that stimulates beneficial soil fungi, acts as a chelating agent for micro-nutrients, and performs as a sequestering agent to help fracture bonds between phosphorous and iron/calcium/aluminum.

Fulvic Acid: An acid extract of geologically concentrated humus that has a strong electrostatic charge, enabling the chelating of nutrients, as well as being a source of micronutrients in a colloidal form.

North Atlantic Kelp Extract: Rich in over 60 minerals, 21 amino acids and 12 vitamins, kelp extract is also a rich source of plant gibberellins and cytokinins that act as plant growth regulators. It also provides muco-polysaccharides, which are complex sugars that assist in feeding soil micro flora.

Black Strap Molasses: An excellent source of invert sugars, trace minerals such as iron, copper and zinc, as well as sulfur. Excellent foliar feed and soil bio-stimulant.

Brewex: A malt sugar derived from the brewing industry, rich in B-vitamins and invert sugars to feed soil bacteria.

CLS: Concentrated liquid sugar made up of dextrose and corn syrup for a quickly available source of energy, especially when nitrogen is available.

EW Mineral Plex: Consisting of copper, boron, zinc, manganese, magnesium, cobalt, selenium, iron and silica chelated with RL-37, which is used to create "clustered" water and places a charge on trace minerals to produce a colloidal suspension.

Phosphoric Acid: Food grade (85%) used to stabilize pH and provide readily available phosphorous.

Bio-Net: Fermentation soluble of dairy whey and corn distillate which contains many bioactive components such as organic acids, B-vitamins, amino acids and peptides, trace minerals and enzymes.

APPLICATION RATES & PROGRAMS:

Greens & Tees - 2 oz. per 1000 sq. ft. per week or 4 oz. per 1000 sq. ft. every two weeks. Increase rates to 4 - 12 oz. per 1000 sq. ft. for highly compacted soils or sodium rich soils.

Fairways - 1.5 gallons per acre per month, increase rates to 2.5 gallons per acre on heavily compacted soil.

Sports Fields - 2 gallons per acre per month, increase rates to 4 gallons per acre on heavily compacted soil.

Ornamentals - 4 oz. per 2 gallons of water, drenched into the soil. These applications should be diluted at least 50:1.

Transplants - 8 oz. per 2 gallons of water, drenched around roots at time of planting.

Kick can be tank mixed with most turf products.
A bench test is always recommended.

*The EarthWorks Liquid Organics
are the key to success when
building a healthy environment.*

EarthWorksTM
Natural Organic Products