



SOIL CONDITIONER

A soil conditioner is a product which is added to soil to improve the soil's physical qualities such as the structure, the porosity, its water holding potential, and its ability to provide nutrition. Both Commercial TerraPro and Ag grade TerraPro are sold as a dry granular formulation.

MOLECULAR CARBON IS THE DRIVING FORCE OF SOIL ECOLOGY

TERRAPRO

The carbon matrix charged with a Consortium of beneficial microbes called a Soil Probiotic, including mycorrhizal fungi and beneficial bacteria. Normally this product is sold in .6 cubic foot bags and is granular in texture. Commercial TerraPro can be provided as a powder in the event the contractor is applying as a hydroseeding protocol. Also used by retail customers, landscape maintenance companies.

TerraPro® is a "Unique and Exclusive Proprietary Product of Soil Secrets" where the molecular characteristics of the Carbon Matrix found in Nature's soil and were purified, identified, and described using a "Commercial Proprietary Information Contract" at the National Nuclear Labs.

The objective of the research was to find and describe for the first time the molecular characteristics of the carbon matrix molecules, along with understanding how the chemical reactions caused by the matrix benefit soil structure and soil health. Soil Secrets is able to replicate in a manufacturing process the Carbon Matrix as a result of this research giving us TerraPro!

TerraPro's Soil Activator provides a Carbon Matrix of molecular substances that benefit any landscape where improving the soil structure and soil moisture management of the site can benefit the vegetation.

This includes but is not limited to farms, lawn, gardens, sports fields, mine reclamation, and erosion control construction projects.

The Carbon Matrix in TerraPro's formulation are biomimetic based carbon molecules that provide Aromatic Chemistry characteristics, providing a "Humectant" characteristic. By definition, a humectant is a hygroscopic substance used to keep things moist and hydrated, in this case helping to keep soil from drying out too fast.

The Hygroscoy phenomenon of the molecules making up the Carbon Matrix was discovered when we performed the analysis of the Molecular Characterization of Humic Substances at the Los Alamos National Nuclear Labs.



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Sold only in 40 cubic foot bags as a dry granular product. The carbon matrix is in a granular texture for use in agriculture and being applied with typical fertilizer spreading equipment. Does not contain the beneficial soil probiotic's.

MADE FOR FARMERS

AGRICULTURAL GRADE TERRAPRO

Healthy Soil is essential if you are attempting to improve crop yield, crop nutrient density, soil porosity, soil structure, water management, and better quality food for all concerned. Everything that's good that must happen in the soil depends on the right amount of water and oxygen in the soil along with a healthy ecology of beneficial microbes and soil carbon.

TerraPro can improve all these things!

The proprietary Carbon Matrix of TerraPro benefits desirable bacteria and mycorrhizal fungi to help support healthy plant growth. Benefits seen could include greater crop yield, reduced irrigation water required, improved soil porosity, reduced soil salinity, improved Nutrient Density, improved soil structure, increased soil carbon sequestration, and improved soil biota diversity.

This mix will support a healthy soil by improving the structure of your soil, supporting beneficial microbes, and improving the porosity of soil. TerraPro works with all crops, trees, ornamentals, turf and garden vegetables. In field trials on the Nations largest farms its been shown to decrease soil compaction, improve water and oxygen penetration and increase the soils biota of beneficial microbes.

- Application Rate: Farmers have used TerraPro at rates of 500 to 2000 pounds per acre, depending on the needs of the site.

Product can be top-dressed onto the surface and watered in., or lightly cultivated into the top $\frac{1}{4}$ " to $\frac{1}{2}$ " inch. Going deeper and using more product may be necessary for Petroleum Hydrocarbon remediation, or Salinity and Sodium remediation.

For best results apply a protein source such as soy protein, fish meal, or the Soil Secrets brand Protein Crumbles applying 200 to 300 pounds of protein per acre.

Direction for Use: Top dress or cultivate into the soil, followed by irrigation after applying. If flood irrigating, cultivating into the soil is ideal. Can also be used on all house plants at 1 tea spoon per 1 gallon size pot, top-dressed, or mixed into potting soil at 5% of mix weight.

Ingredients: Purified Carbon from Oxidized Lignite, protein, algae, colloidal compost with enzymes (Soil Secrets brand SUPRAPLEX).



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TERRAPRO PROVIDES THE FOLLOWING BENEFITS:

- Improves profit by increasing crop yields
- Supports healthier crops
- Reduces fertilizer runoff
- Assists in soil remediation
- Supports soil microbial respiration
- Increases root, water and oxygen penetration into soil by improving soil porosity
- Improves water retention and drought tolerance of crop
- Improves uptake mineral nutrients into the plant
- Supports a healthy soil ecology which in turn decreases disease pressure
- Reduces heat stress and other environmental stresses