



*Because Water Matters*

### Hard Pan Soil- HydroCor Open All®

The use of HydroCor (OB50) soil oxygen supplement is an important “tool” to allow water to permeate to the plant roots. Simply stated, OPEN ALL® is a soil conditioner with many unique features not found in any other product. It has the ability to change or alter the electronic bonding in both soil chemicals and water. Because of this capability, the oxygen status of the soil is increased, resulting in the break-up of clay and hardpan, in addition to eliminating mineral and alkali contamination. Alkaline crusts formed from using chemical fertilizers will also be eliminated. After the treatment, soils take on a regenerated structural change, accommodating deeper water penetration. This allows for deeper plant root penetration and increased utilization of stored water for long periods of time. Attributed to the improved water penetration, it decreases evaporation and run-off resulting in substantial water savings (by up to 50%).

It is an electrolyte able to remove the “NEGATIVE ION FOG” surrounding each clay or soil particle. This process allows soil particles to chain bond, producing larger soil aggregate and optimal pore size. Proper pore size promotes increased aeration and optimum moisture retention capacity, encouraging fast biotic growth. The electro-chemical forces in the soil change radically after just one application of OPEN ALL®. These changes result in a granular soil texture ideal for moisture penetration, retention, and extended root growth. It stimulates bacterial growth in the soil while adding specific amino acid chains that are dormant in OPEN ALL®, but activated in the presence of fresh water. Nitrogen fixation simultaneously occurs; eliminating the salts left behind from years of chemical fertilizer use. If not eliminated, these salts can burn the roots of plants, and cause stress. Salt removal, in addition to alkali and boron reduction, are some of the most significant benefits derived from a proper treatment. While also helping to correct soil pH. Most soils experience immediate effects, however, the buffering capacity of some soils may decrease the pH adjustment speed. Increasing the organic capacity of worn out soil while unlocking natural fertility; revitalizing dormant fertilizer. Often, soils contain readily available nutrients, but the plants are unable to obtain them. It provides for proper nutrient absorption and utilization. OPEN ALL® has the ability to release nascent oxygen and hydrogen gases simultaneously (mainly from the water molecule).

We have found that in some cases it takes a few applications to see full results. Patience is needed when the problem is vast and needs time. Please remember that we have had some clients tell us that over a period of time they were able to see definite permeability and a healthier soil. Observations above are from operations around the world, based on their own unique results and experiences. All issues are different; every environment is different; every operation is different; and of course, every issue needs to be handled differently. We cannot guarantee you will see any specific result listed above; many factors contribute to disinfected surfaces and water. Raising the oxygen levels will further contribute to your overall production success



*If this makes sense to you, please give us a call; we would love to have you as a customer.*

**CLEAN ~ CLEAR ~ NUTRITIONAL WATER IS OUR PASSION!**

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*Caution: Bacteria and contaminants are everywhere. Your seeds need to be disinfected, however we do not suggest over soaking your seeds for long periods of time.*

# HYDR COR

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## **Building Blocks of Water (& Life!)**

**H<sub>2</sub>O = 2 molecules of Hydrogen + 1 molecule of Oxygen**

### **Hydrogen:**

Hydrogen makes up 90% of the matter in the known Universe. Without hydrogen to combine with oxygen, we wouldn't have water. Water is formed when hydrogen is burned by oxygen. We create pure water every day as a product of our metabolism. When we burn hydrogen in our cells, the energy that is released is used to run our bodies.

Oxygen burns hydrogen in the living system, releasing the energy that runs our bodies. **Hydrogen is "the fuel of life"** and is essential to most biological processes in its atomic form, including hydrating our cells. In the absence of an adequate supply of hydrogen, intracellular function, inter-cellular communication and energy production are inhibited; toxins and free radicals accumulate and health deteriorates."

### **Oxygen:**

Oxygen acts as a disinfectant, deodorizer, sanitizer & preserver. All functions of our body are regulated by oxygen. It must be replaced on a moment to moment basis because 90% of our life energy depends on it.

Oxygen energizes cells so they can regenerate. Our body uses oxygen to metabolize food and to eliminate toxins and waste through oxidation. Our brain needs oxygen each second to process information. In fact, all of our organs need a great deal of oxygen to function efficiently. The ability to think, feel, move, eat, sleep and even talk all depends on energy generated from oxygen. **Oxygen is 'the Life-Giver'**

Oxygen is the only element capable of combining with almost every other element to form the essential components necessary to build and maintain our bodies. The combination of oxygen in the air, water, proteins and carbohydrates creates life energy. **Without oxygen there would be no life**

### **Water - the 'Ocean of Life'**

All chemical reactions in the body take place in water. Every cell in the body is bathed in water, which contains materials to keep them vibrant.

Water is the transporter of nutrients and **oxygen** for proper function of the body's tissues; it helps remove waste from the body; it acts as a natural air conditioner through perspiration; it's essential for digestion and absorption of vitamins and minerals. Water keeps our skin moist and supple, and is a natural lubricant for our joints and internal organs. It is involved in every one of our bodily functions, so it's hardly surprising that dehydration can lead to mental and physical breakdown. Over the course of an average day, the body loses approximately three quarts of water through breathing, perspiration and elimination. This fluid must be replaced or muscle cramping, dehydration, or heat stroke may take place.

The growing pollution in our modern day world is having an increasingly detrimental effect on our drinking water, and consequently on overall health. Hazardous chemicals like mercury, lead, arsenic, cyanide, aluminum, phosphorus, and pharmaceuticals are getting into the water system every day, along with chlorine and fluoride, added by municipalities to treat water. E-coli, total coliforms, iron, lead, manganese, nitrates, nitrites, sodium, sulphates, and total dissolved solids, further add to the load of toxins that our bodies try to eliminate.

**Without water to carry oxygen and other vital nutrients, life could not exist**

