

## Effectively Controlling Fungus

HydroCor (OB50) is a powerful remedy for all types of Fungi, ie: powdery mildew, root rot, mold, scab, ringworm, Dutch elm, etc. Growth-causing living organisms like fungi, bacteria and viruses do not like Oxygen. Our HydroCor (OB50) oxidizing agent is much more powerful than most people realize. When it is added to water a large amount of dissolved oxygen is released creating a powerful oxidizing effect. A major benefit is that you can use it at higher PPM without worrying about chemical residuals, because our product breaks down to Hydrogen, Oxygen and Water. Anthracnose, phytophthora, septoria brown spot and yellowing of leaves are a major concern to farmers. Most plant pathogens only harm plants; our process is to find solutions that effectively treat the source of the disease WITHOUT doing any harm to the environment, soil or plant. Plant diseases are major issues affecting crop quality & yield.



HydroCor (OB50) is a unique water treatment & purification system that has been around many years. Our "Premium Quality" Product is not only stabilized to give it better efficacy, it also has a proprietary formulation and is custom-made to fit your water needs. Our product helps disinfect and keep your plumbing clean and unplugged. With the addition of our stabilizer you will see long-lasting efficacy, and protection for your pipes against corrosion. It also helps bind and tie up contaminants, while softening your water up to 25%.

Plant pathogens can be fungal, bacterial, viral, or nematodes and can damage plants above and below the ground. The concern of not knowing until it is too late has bottom line

implications. Farmers in seasonal areas usually get only one chance to treat it. The fungal causing diseases can have a great impact on their bottom line for the complete season. HydroCor (OB50) can also be used as a foliar application to rapidly treat or prevent infestation. A pathogenic organism such as a fungus causes infectious plant diseases. Bacteria spread quickly causing other healthy plants to be affected. Cankers, leaf spots, scabs and wilts are also concerns, requiring preventive measures. Protection is critical and we can help by using a HydroCor (OB50) formula for microbial growth in water purification. We also use our product to prevent formation of organic matter on plumbing, eliminating smell from Sulphates (rotten egg smell), controlling iron and manganese bacteria, as well as microorganism degradation. Our product is stabilized and reacts very quickly, making it a very helpful tool in many application processes. Free radicals of oxygen are the only remaining factors when using our stabilized product. Fungi do not like the oxygen-rich environment our product line creates.

Plants are also affected by Tobacco mosaic virus (TMV). TMV is a positive single stranded virus that infects a wide range of plants. However, its favorite host is tobacco. It causes a discoloration on the leaves. TMV causes brown spots on the surface of leaves. The virus doesn't usually cause the plant to die, but can seriously stunt its growth. This virus cannot get into plants on its' own but plants can be infected via other plants, wounded by contaminated equipment. It can also spread through one plant passing it over to the next by direct contact. We suggest a strong disinfection process and protocol be followed using our product. Another concern is bacterial speck in tomato crops. This can ruin an entire tomato crop causing a great deal of loss. Bacteria live everywhere. For effective protection against disease and infestation, **crop management always be preventative rather than reactive.**



HydroCor has the tools to help you with both effective prevention and treatment after infection/infestation, depending on the issues and their severity.

***Waiting until a problem occurs rather than being preventative can be frustrating, costly and time-wasting; this also affects the bottom line of the operation.***

## How do Fungi attack plants?



Fungi can't make their own food. Some fungi can digest things like dead leaves and wood. A good example of this is pictured on the left. Our Distributor in Guatemala successfully treated his Rubber Trees with a customized program of foliar spraying. Fungi like to set up a home base on plants. Pathogenic and disease-causing fungi get inside the plant by either making a hole or growing through the plant's source of oxygen. Fungi poison and kill the plant by absorbing food from them and stealing nutrients for the living cells. The spores of fungi come through air and soil, which is why it is critical to have a preventative maintenance program using our product and protocols.

Fungus likes to live in warm and humid areas. Fungi create spots of different colors on fruits, leaves, plants, stems, flowers, crops and roots, gradually expanding and causing plants to die (literally starve to death). Fungal diseases like Fusarium wilt and Verticillium wilt affect many plants, ie: cotton, potato, tomato, tobacco and many other trees and shrubs.

Fungus often starts with yellow stems, then develops reddish spots and later becomes brown or black. Our products are also used in the packing-house process to protect the vegetables and fruit from damage in storage and transit. The bathing of fruit in a bacteria-free environment is critical to your success. Disinfection of the personnel and immediate area are equally important. Our product is also widely used as an antibacterial and antifungal agent and is especially effective against certain types of aerobic bacteria like Staphylococci

We can help you accomplish a safe environment and process with our methods and line of products. However, the observations listed above are from specific situations, based on their own unique results and experiences. All water is different; every environment is different; every operator is different; and of course, many factors contribute to bacterial and fungal growth. We cannot guarantee you will see any specific result listed above. But what we can guarantee is that you will immediately have **clean, clear, nutritional water**, and in a very short time, better results than without our applications. When your plant and soil have healthy, nutritional water it's a good start. Raising the oxygen levels will further contribute to your overall production success. Application rates vary from operation to operation. For well-designed application rates, contact the Distributor in your area. If there is no Distributor, please contact us directly.



Note: This is not a "magic bullet" solution. Our customized formulation, procedures, and protocol depend on many factors, and available exclusively to our customers.

*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!**

*Note: There are hundreds of kinds of bacteria, specific to your crop, soil, and geographic location. We have not tested our products on all of them. However, we have the products, equipment, knowledge and resources to help you treat your specific fungal or bacterial issues.*