

AgriTec[®] for use in Ponds



Pond treatments are typically calculated on the basis of three feet of water depth, because algae tends to concentrate in the top three feet of water. Three feet of water per acre of pond is approximately 1,000,000 gallons of water. Rates of AgriTec for control of algae are in the range of 1 gallon per 1,000,000 gallons of water treated – so 1 gallon per acre – but can vary depending on algal species.

Prevention is Critical

Early treatment will control an algal bloom with less product than responding to a bloom that is already established. Ideally, start in early spring before a problem occurs. Preventive applications are also safer for fish populations because oxygen deprivation can occur when algae die and decompose, depleting the water of dissolved oxygen.

Application Methods

Apply AgriTec at full strength or dilute with water to spray it on or below the water surface. Spray around the shallow shoreline or pour into the pond at 2–3 locations and allow to disperse naturally. AgriTec will disperse on its own, resulting in uniform concentration throughout the pond. AgriTec will not settle out and it is not tied up in the sediment. In contrast, copper sulfate crystals tend to settle out and accumulate in the sediment.

AgriTec	Dry Copper Sulfate
Rapidly disperses resulting in uniform concentration throughout the water body	Does not disperse easily and must be applied at many more points around the pond
Remains suspended in the water column to provide long-lasting treatment	Quickly settles out and accumulates in sediment

Application Rates for Different Types of Algae

Blue-green algae

- Blue-green algae (cyanobacterial) blooms often appear as bright fluorescent green or pea soup-colored water with a paint-like consistency on the surface but can also be reddish or brownish.
- Fine in texture and generally will not plug up irrigation systems if pumped.
- Blue-green algae can be toxic to livestock, people, and pets and should be carefully controlled.
- Usually controlled with 1-3 gal AgriTec per 1,000,000 gal of water.
- Re-treat with 1-3 gallon per acre at 4-week intervals based on regrowth.

Filamentous algae

- Several species.
- Appears as long, hair-like strands or filaments.
- Can plug intakes or screens and restrict irrigation in ponds.
- Use 2-4 gal AgriTec per acre of water depending on severity of the bloom..
- Re-treat with 2-4 gallons per acre at 2-4-week intervals based on regrowth.

If you don't know what kind of algae you have

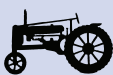
- Apply 2 gallons AgriTec per acre of water early in the spring.
- AgriTec will stay in solution while water is cool until algae starts to increase.
- AgriTec will be available to suppress algae populations as they appear.

Re-apply AgriTec as necessary based on:

- severity of algal blooms
- high air and water temps
- inflow of new water into pond

Re-treatment timing and rates depend on local conditions; use experience with that specific pond's past conditions and location to determine re-treatment timing.

Always read and follow label directions.

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Earth Science Laboratories Inc.
800.257.9283
ESLAgri.com

AgriTec for use in Ponds

Ponds are typically treated based on 3 feet of water depth as most of the algae is concentrated in the top three feet of water.

Three feet of water per acre of pond is approximately 1,000,000 gal of water.

Rates are based on gal of AgriTec to 1,000,000-gal water depending on algae species

In every application it is always better to start in early spring before a problem is evident as it takes less product to prevent a problem than to try and knock it out. **An ounce of early prevention is truly worth a pound of cure when it comes to preventive algae control.**

Blue green algae is the cause of the pea green color of water in ponds and is easily controlled with 1 gal AgriTec per 1,000,000 gal of water. This algae is fine in texture and generally will not plug up irrigation systems if pumped. Livestock do not like water with blue green algae.

There are a couple species of filamentous algae and some are more easily controlled than others. They appear as fine filaments and can plug up and restrict irrigation in ponds. The rate needed to control filamentous algae is 2-3 gal per acre of pond water depending on species and level of infestation.

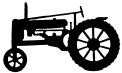
Because most pond owners do not know what kind of algae they have it typically makes sense to start with 2 gal AgriTec per acre of pond early in the spring. When water temperature is cool the AgriTec will stay in solution until the algae counts start to increase and then it will be available to work on growing algae populations.

Preventive applications are also safer for fish populations because excessive algae levels when controlled can result in oxygen deprivation due to excessive dying algae levels. Oxygen deprivation is not due to copper levels but is due to rapid algae death removing oxygen from the water.

You can apply at full strength or it can be diluted with water if you choose to spray it. You can spray it around the shallow shoreline of the pond, or it can be poured into the pond at 2-3 locations. AgriTec will disperse into the water resulting in uniform application across the water in the pond. AgriTec will not settle out and it is not tied up by the mucky bottom of ponds. Bagged copper sulfate will settle out and is tied up by mucky pond bottoms.

You will need to re-apply AgriTec to ponds based on severity of algae populations, high air and water temperatures, and inflow of new water into pond. Filamentous algae should be retreated at 2-4-week intervals based on regrowth and use 2 gal per acre of pond for filamentous algae. 1 gal per acre at 4-week intervals should be adequate for blue green algae control. Timing of retreatment is more of an art than a science based on experience with that pond.

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