



Supreme Turf Products, Inc.

5 Cassens Court
Fenton, MO 63026

(636) 349-8900 Fax (636) 349-8903

AQUATIC PROGRAM

Here are my suggestions on plant and algae control for lakes.

The key is to begin early. With a mild winter I would expect to see early algae and weeds.

Begin in late February or early March. Initial application should be 1-1/2 gal per acre of EarthTec along with one (1) gallon per acre of Admiral. Repeat this again in one (1) month. That will bring you to late April or early May. The next five (5) months, May through September, cut the EarthTec back to one (1) gallon per acre and apply it twice per month. You should be able to maintain the Admiral at 1 gallon per acre once a month unless we have a lot of ran and run-off.

The important thing to remember is to get the Earthtec applied in the deepest part of the lake and let it self-disperse. Don't pour it in the shallow parts. It will just sink to the bottom and not work very well.

A typical schedule would look like this:

Month	Week	Product	Gallons per Acre
February	3 rd	Admiral EarthTec	1 1-1/2
March	3 rd	Admiral EarthTec	1 1-1/2
April	3 rd	Admiral EarthTec	1 1
May	2 nd	EarthTec	1
May	4 th	EarthTec Admiral	1 1
June	2 nd	EarthTec	1
June	4 th	EarthTec Admiral	1 1
July	2 nd	EarthTec	1
July	4 th	EarthTec Admiral	1 1

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Month	Week	Product	Gallons per Acre
August	2 nd	EarthTec	1
August	4 th	EarthTec Admiral	1 1
September	2 nd	EarthTec	1
September	4 th	EarthTec Admiral	1 1

Weeds, as they appear, can easily be controlled with contact applications of Reward (Diquat).

Here are some things to remember about Reward. Most important is to remember that it has a **three (3) day irrigation restriction**. That is the least amount of days compared to everything else on the market, except Rodeo.

If you're only spraying small areas with small amounts, I wouldn't even worry about it at all. It would take a significant amount of Reward through your irrigation system to cause any damage.

Other things to remember about Reward are not to apply it in muddy water. It breaks down by sunlight and absorption to silt or clay. (Similar to Rodeo or Roundup) It just doesn't work well in muddy water. Also, don't spray plants that are silt covered, same action occurs.

Best if applied to young actively growing plants on a nice sunny day with water temperature above 60 degrees. As a booster, add ½% non-ionic surfactant. I suggest Surf-Side, but any good one will work.

One of the most common recommendations for various weed and grass controls have always been cutrine plus (EarthTec) and Reward (Diquat) combination along with a small amount of surfactant.

When mixing the combination for Duckweed, as an example, I would mix one (1) part EarthTec to two (2) parts Reward with ½ oz surfactant per gallon. i.e. 3 gallon back Pack is: 3 oz EarthTec, 6 oz Reward, and 1-1/2 oz surfactant. Spray to the point of wet.

The most important factor is the pH of the water you are treating. If your pH is over 7.5 then add 5 gallon per surface acre of Citric Acid or Muriatic acid just before you apply the EarthTec. This will lower the pH long enough to let EarthTec work.



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Table 1. Muriatic acid is used to lower pH

Gals of Water	pH Value							
	7.6-7.4	7.8-7.4	8.0-7.4	8.2-7.4	8.4-7.4	8.6-7.4	8.8-7.4	9.0-7.4
2,500	1.5 oz	2.5 oz	3.0 oz	3.3 oz	3.5 oz	3.7 oz	3.8 oz	3.8 oz
5,000	3.0 oz	5.0 oz	6.0 oz	6.6 oz	7.0 oz	7.4 oz	7.6 oz	7.6 oz
10,000	6.0 oz	10.0 oz	12. oz	13.2 oz	14.0 oz	14.8 oz	15.2 oz	15.4 oz
15,000	9.0 oz	15.0 oz	18. oz	19.8 oz	21.0 oz	21.0 oz	22.8 oz	23.0 oz
20,000	12.0 oz	20.0 oz	24. oz	22.4 oz	28.0 oz	29.6 oz	30.4 oz	30.5 oz
25,000	15.0 oz	25.0 oz	30. oz	33.0 oz	35. 0oz	37.0 oz	38.0 oz	38.5 oz
50,000	30.0 oz	50.0 oz	60.0 oz	66.0 oz	70.0 oz	74.0 oz	76.0 oz	77.0 oz

Table 2. Muriatic acid is used to lower pH

Gals of Water	pH Value							
	7.8-7.6	8.0-7.6	8.2-7.6	8.4-7.6	8.6-7.6	8.8-7.6	9.0-7.6	9.2-7.6
2,500	1.0 oz	1.5 oz	2.0 oz	2.1 oz	2.2 oz	2.3 oz	2.4 oz	2.4 oz
5,000	2.0 oz	3.0 oz	4.0 oz	4.2 oz	4.4 oz	4.6 oz	4.8 oz	4.8 oz
10,000	4.0 oz	6.0 oz	8.0 oz	8.4 oz	8.8 oz	9.2 oz	9.6 oz	9.6 oz
15,000	6.0 oz	9.0 oz	12.0 oz	12.6 oz	13.2 oz	13.8 oz	14.4 oz	14.4 oz
20,000	8.0 oz	12.0 oz	16.0 oz	16.8 oz	17.6 oz	18.4 oz	19.2 oz	19.2 oz
25,000	10.0 oz	15.0 oz	20.0 oz	21.0 oz	22.0 oz	23.0 oz	24.0 oz	24.0 oz
50,000	20.0 oz	30.0 oz	40.0 oz	42.0 oz	44.0 oz	46.0 oz	48.0 oz	48.0 oz

Note: Muriatic acid is about 10% in solution. The dosage rates are not absolute, but they are presented as guidelines for average water conditions.

Example of Decreasing pH

Change from 8.0 to 7.6 pH using muriatic acid for 546,000 gallons of water

Step 1: Amount of muriatic acid required to change 50,000 gallons from 8.0 to

$$7.6 \text{ pH} = 30.0 \text{ oz. } 546,000/50,000 = 10.92$$

Step 2: $10.92 \times 30.0 = 327.6 \text{ oz} = 2.6 \text{ gallons of muriatic acid}$