

Water Meal Study with TopFilm™ in Ornamental Fish Production

Data from a Tropical Aquaculture Center (January 2012)

“Water Meal (Wolffia spp.) has always been a real scourge in the Ornamental Fish Industry. Once you have it, it seems to spread from pond to pond quite easily attached to anything from workers to wading birds including alligators, otters and raccoons.

The only method up to this point has been Sonar (Fluridone) though very costly.

I have tried many, many concoctions with little or no success until I received a sample of Top-Film from Biosorb Inc. (www.Biosorb-Inc.com).

Mind you I receive a multitude of aquaculture products as samples and rarely do any actually do what they claim to.

“Top-Film on the other hand is a very different type of product and did do exactly as claimed. (Please see the attached web-link for an explanation)

<http://www.biosorb-inc.com/TopFilm%20-%20New%20Technology.pdf>

The link explains the difference between a surfactant and Top-film’s microsponge technology. It is this micro-particle size that is the key to eliminating Wolffia.

RESULTS:



6 Hours After Treatment



2 Days After Treatment



4 Days After Treatment



7 Days After Treatment

TREATMENT:

“The following is the combination that has proven effective (For me) to control Water Meal on Ornamental Fish Production Ponds:

1. Water (Preferably R/O or at least Soft Water)*
2. Diquat (Maximum Labeled Rate)
3. Copper Sulfate Liquid (Aqua-Tec a chelated product from Cheltec, Inc.) (Copper Sulfate is applied to production ponds with fish by dividing the Total Alkalinity by 100 : $TA/100 = \text{ppm}$). I have been using **1.0 ppm** with excellent results.
4. Top-Film (At least 250 ml/acre, this was our minimum effective rate)
5. Apply the mixture in the morning (Sunny Day is Best)
6. Set spray nozzle to the finest mist possible
7. Make sure to cover the entire surface as well as a bit of overlap on the banks.

“Our ponds are on the average $1/10^{\text{th}}$ of an acre and the application is small, so what I recommend is that the farmer use a 2 gallon pump up sprayer :

1. Fill $\frac{3}{4}$ with Water*
2. Add 1.0 liter Diquat
3. Add 1.0 liter Aqua-Tec
4. Add a minimum of 250 ml Top-Film
5. Fill the rest of the way with water*(Stir)

“Now the farmer has enough spray mix to do 10 ponds and even if he trips and falls in a pond releasing all of the solution the fish would probably be safe.

“NOTE: ANY TIME YOU TREAT A WATER BODY WITH ANY HERBICIDE OR ALGECIDE YOU RUN THE RISK OF OXYGEN DEPLEATION SO USE CARE!!!

“This technique has worked on several different farms with varying water qualities with the same results, **DEAD WOLFIA and LIVE FISH.**

On occasion retreatment was necessary due to Wolfia seeds or because all the “beads” were not contacted by the spray, though the end result was the same.

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