Natural Lake Biosciences

AquaSticker

BIOLOGICAL CATALYST, STICKER, AND PENETRATOR

AquaSticker is an innovative biological sticker, penetrator and catalyst designed to improve pesticide efficacy. It works by stimulating competitive bacteria growth and temporarily disrupting the microbiota on algae and aquatic plants. This improves response times by increasing adhesion and uptake of pesticides on targeted algae / plants during treatments. Utilizing AquaSticker ensures a more efficient and thorough treatment process while reducing the environmental impact and need of more frequent pesticide applications.

AquaSticker is a dry soluble powder that mixes well with most aquatic pesticide formulations (copper, diquat, flumioxazin, endothall, etc.). It should be fully dissolved in the pesticide solution and applied according to the pesticide instructions.

AquaSticker is recommended to be included in treatments on planktonic and filamentous algae (cyanobacteria and green), floating plants, and grasses. It can also be utilized with Natural Lake Biosciences' CattZilla or PondZilla Pro to boost performance.

KEY BENEFITS & HIGHLIGHTS

- Biological sticker, penetrator and catalyst
- Stimulates competitive bacteria growth and temporarily disrupts microbiota
- Improves pesticide response time, adhesion, and uptake
- For use on algae, floating plants and grasses

Lyngbya Treatment with AquaSticker

Dose Rate

WHEN MIXED WITH PESTICIDE

Fully dissolve AquaSticker in chemical solution and spray evenly over target. Do not mix directly with peroxide based algaecides.

Available Sizes

- 10 lb container, 1 lb water soluble packets
- 30 lb container, 1 lb water soluble packets
- 30 lb container, bulk

Treatment Area	Cyanobacteria	Planktonic Algae	Aquatic Plants
10,000 sq ft	1-5 lbs	.5 - 1.5 lbs	.5 - 2.5 lbs
1 Acre	5 - 20 lbs	1 - 3 lbs	1 - 5 lbs

Study Summary

All algaecide treatment combinations with AquaSticker showed more bacterial growth and more damage on *Lyngbya* cells and filaments than algaecide treatment combinations without AquaSticker

All algaecide treatment combinations with AquaSticker showed greater suppression / degradation of *Lyngbya* than treatment combinations without AquaSticker

The combination of **AquaSticker + Cutrine Plus® + Hydrothol 191** showed over 10x more suppression / degradation of *Lyngbya* over Cutrine Plus + Hydrothol 191

The combination of **AquaSticker + Cutrine Plus®** showed 3x better suppression / degradation of *Lyngbya* over Cutrine Plus + Hydrothol 191

Treatments containing Cutrine Plus alone resulted in a 200% increase in *Lyngbya* growth

AquaSticker + Cutrine Plus® increased *Lyngbya* degradation by over

300%

while the combination of AquaSticker + Cutrine Plus® + Hydrothol 191 increased *Lyngbya* degradation by over

1,000%

Read the full study here

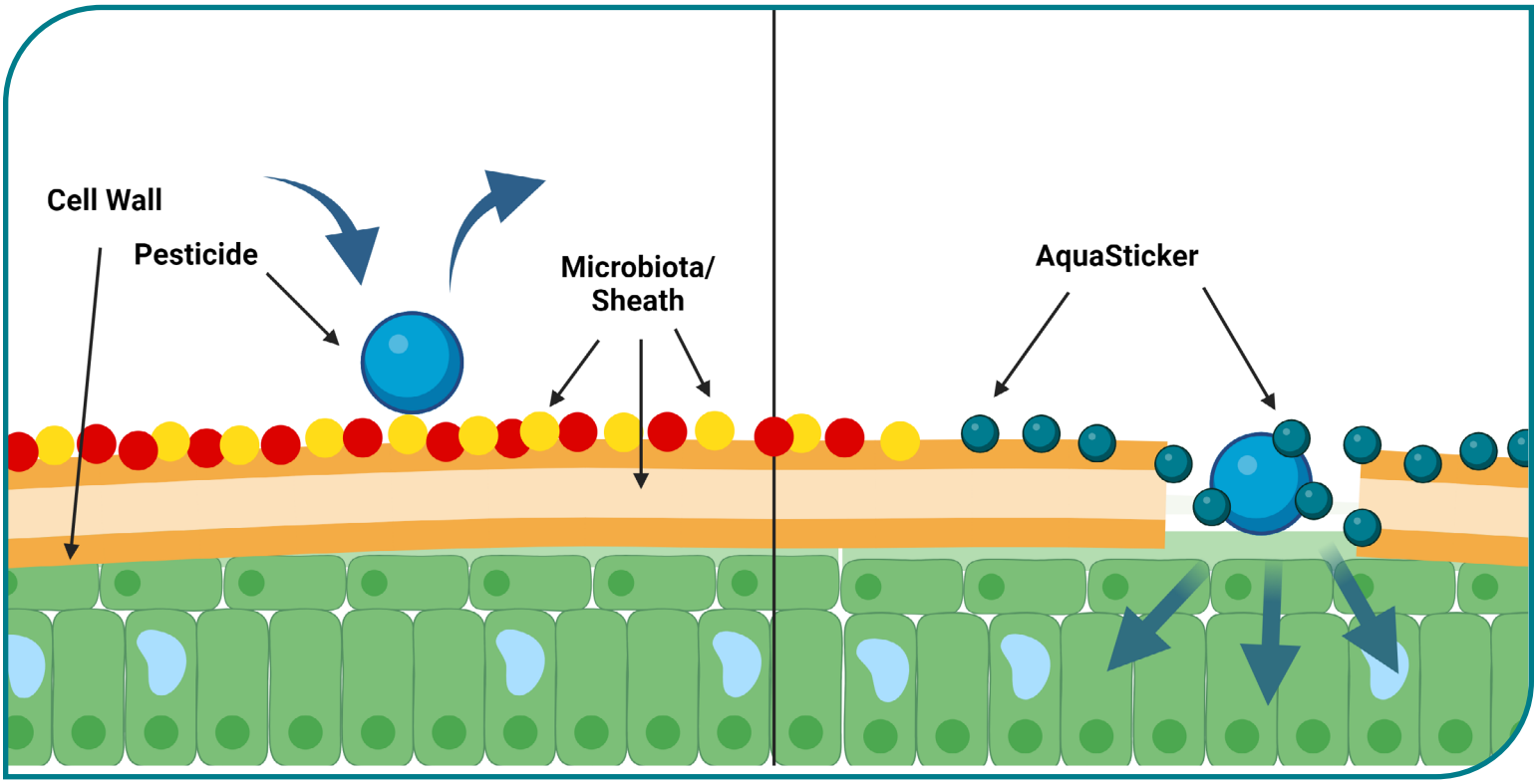
Professional Tip

Higher concentrations of AquaSticker can increase the viscosity of your solution; be sure to follow our dose recommendations and verify your equipment's capabilities before treatment.

888.757.9575 | www.NaturalLake.com | orders@NaturalLake.com

The Science Behind It

Algae and aquatic plants host distinct microbial communities on their surface called the microbiota. This diverse community of microorganisms (bacteria, fungi, archaea, and viruses) can be both mutualistic and pathogenic. The microbiota plays a key role in protecting algae and aquatic plants from environmental impacts, pathogens, and chemical attacks. It also is important in fixating nutrients for growth. The community can adapt or shift according to the conditions to promote the health and survival of its host.



IMPROVING PROBIOTICS

AquaSticker's unique traits and essential components allow it to combine well and improve the performance of our probiotics and biocatalysts (Water Column Clarifier and PondZilla Pro). When blended together, AquaSticker and Water Column Clarifier will improve formation of microfloc which clarifies the water. When mixed with PondZilla Pro, AquaSticker improves the biological reaction at the surface of the algae or plant. PondZilla Pro works synergistically with systemic herbicides and ensures thorough and complete degradation of dead aquatic plants.

IMPROVING PESTICIDES

The effectiveness of chemical treatments can be limited by the microbiota that protect their hosts through metabolic shifts and biofilm production, defending algae and aquatic plants from substances like copper and diquat. AquaSticker, when combined with algaecides and herbicides, temporarily disrupts this protective microbiota by promoting competitive microbial growth. This disturbance enhances chemical uptake by the host and improves contact time with targeted algae and aquatic plants by slowing dissipation in the water and increasing adhesion.