OLOID Solution GmbH

Tomato growers

Noordhuys Tomatos, Oude-Tonge, Netherland

“Every producer should invest in an OLOID”

Noordhuys Tomatos
http://www.noordhuys.nl/

Operation
1 rain water basin with one OLOID Type 400

Period
Since 2005

Success
Successful reduction of algae growth

Improved oxygenation

Increased visibility range

Algae damages your crops
Algae growth increases as radiation and temperature increase, especially in stagnant water in basins and silos. Dead algae clog irrigation systems and during the decomposition process the oxygen dissolved in the water is consumed. The solution is the OLOID...

True Results
Noordhuys Tomatos in Oude-Tonge has two rainwater basins. Two years ago he had serious problems with algae. During that hot summer he was forced to empty and clean both basins. A year later, in the spring of 2004, he was again confronted with heavy algae growth.

At the beginning of 2005 an OLOID type 400 was installed in one of the basins. The circulation of OLOIDS reduces algae growth and prevents the sinking of biological degradation material on the basin floor. In addition, additional atmospheric oxygen is added to the water.

Clear water
Measurements were taken every few weeks after the OLOID was installed in the end of March. These measurements show that the oxygen content of the water increased from 11.26 to 14.4 ppm. The measurements in the basin without OLOID showed a drop to 3 ppm. Van Noord finds this one of the most striking outcomes. “And after having used the OLOID for three months the water is so clear that I can see the bottom. And that was during April and May when temperatures rose and the other basin became more and more dirty due to algae growth. This new product beats nature!”

OLOID Solution GmbH
W.-Winkler-Str. 3 | D-04178 Leipzig | mail@oloid.de | www.oloid.de

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Improved water quality

"As a grower you have to try to bring the cleanest possible water with sufficient oxygen in it to your plants. You also should not allow the water temperature to increase above 18 degrees. Warmer water contains less oxygen and it also negatively influences the efficiency of nutrients uptake by the plants' roots. Then you lose again what you first gained with improved water quality", says the grower. He is convinced that improved water quality results in better growth and higher production. "Every grower should invest in an OLOID."

Measurement parameters:	Pre-installation	3 Weeks later	6 Weeks later
Oxygen saturation surface:	72%	72%	99%
Oxygen saturation mid-depth:	74%	71%	98%
Oxygen saturation ground:	36%	69%	82%
Temperature difference between surface & bottom:	4 F or 2,2 °C respectively	0 (= mixed)	0 (= mixed)
Light transmission:	76%	81%	73% *
Algae ratio:	913 µg/l	590 µg/l	383 µg/l
(* caused by mixing with groundwater)			