OLOID Solution GmbH

Algae prevention in irrigation pond

Eschbach Gemüsebau, Füllinsdorf/BL, Switzerland

„Keeps the water in perfect condition for irrigating crops“

Eschbach Gemüsebau
http://www.eschbach.ch/

Operation
1 irrigation pond with 7,500 m³
(LxWxD = 70 m x 15 to 20 m x 6 m)
with 1 OLOID Type 400

Period
Since 2011

Success
No algae formation

Impeccable water quality

Short description of plant
(more detailed on www.eschbach.ch)
The company Eschbach Gemüsebau exists in the 5th generation, i.e. already over 100 years. It is a mixed farm of 15-16 ha of open field and 1.4 ha of greenhouse production. The vegetable assortment is seasonal and consists i.a. of various salads, radishes, cabbage, tomatoes, cucumbers, fennel and celery. Outdoor cultivation is carried out according to the guidelines of the integrated production method (IP). The customers of Eschbach Gemüsebau (wholesalers, and via wholesalers also hotels, restaurants and commercial kitchens) are supplied with fresh products in the Greater Basel area throughout the year.

OLOID-operation
In 2011, an irrigation water basin was built with a version of about 7,500 m³, followed by a small species-rich biotope. The basin is fed with rainwater by direct entry, from the roofs of the greenhouses and via a pipe from a higher basin with approx. 3,000 m³, which also feeds the biotope. The water level varies between at least 3 m (lowest in summer 2018) and 6 m. From the beginning, an OLOID type 400 was used in the large basin for algae prevention, which runs 24 h/d and 365 d/a. The water of the smaller pool is kept in motion by a pump.

Success
The flow generated by the OLOID captures the entire volume of water. The agitation body of the OLOID is 85% immersed in the water, so that in addition to the circulation additional air-oxygen is introduced. Algae growth was prevented from the beginning. In winter, the water remains constantly clear, in summer, its temperature can rise to 25 °C - 28 °C, which can temporarily develop plankton. At a pH > 8, the value is stabilised with the addition of hydrochloric acid. Thanks to the OLOID, however, the quality of the water is kept in perfect condition throughout the year for irrigating crops. The operation is therefore successful in every respect.

The OLOID was recommended and installed by **Hubertus-Beutler GmbH**.

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