

The OLOID-Water Strider:
The special attachment to this gracefully designed natural bathing pond.
Suberg-Grossaffoltern, Bernese Lake District, Switzerland



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Operation

1 Water Strider-OLOID Type 200
in natural bathing pond with 600 m³

Period

since 2017: 1 Water Strider-OLOID
(2015 - 2017: 1 OLOID Type 200 A)

Success

Clear water

Algae oppression

Current captures the entire pond
volume

Location description

In 2015, a natural bathing pond was built, with a curved U-shaped outline. The location was designed and drawn by Mrs. R. Schläfli, Dipl.-Ing. Arch. The pond surface is 600 m², the water depth in the swimming area is 2.3 m. The pond floor is sealed by a separating foil and covered by coarse gravel. The water supply is partly from a source in the immediate vicinity in the adjacent forest with variable yield, and partly from rainwater.

Goal of the OLOID operation

Prevent water turbidity with an OLOID Type 200 A, keep algae away, keep the entire pond volume, i.e. about 600 m³, in constant motion, on the one hand for uniform distribution of oxygen, on the other hand to prevent dead spots in order to prevent deposits.

Success

From 2015 to 2017, 1 OLOID Type 200 A was used. The algae could be kept away and the water remained clear. In the warmer months, algae may form on the bottom and on some rocks, looking like a brownish moss coating without altering the water clarity. This is within the scope of a healthy and natural water body. The water strider OLOID causes fine waves, which spread on the whole pond surface. At the same time, a rhythmic-impulsive flow is generated, which covers the entire pond volume. There are no signs that the aquatic organisms are disturbed by the device. For maintenance reasons, the OLOID was taken out of the water for about 3 weeks, during this time algae growth and water turbidity could be detected after only a few days. For aesthetic reasons, the existing OLOID was replaced by a water strider OLOID in autumn 2017 (see photo). In addition, the agitator body was copper plated to further assist in preventing algae growth.

The project was planned by AURAPLAN ARCHITEKTEN :: bauen ist formsache
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