

## Manual for aeration membrane ECO-68

Fine-bubble aeration membrane

### Product:

aeration membrane

### The material:

Polyurethane

### Method of use:

The membrane is designed primarily for aeration systems in wastewater sewage treatment plants. Recommended volume of air supply ranges from 2,8 – 8,0 m<sup>3</sup>/h.

### The risks of damage by handling (this damage is not covered by warranty):

- Rupture by sharp object
- Damage by influence of daylight - the material does not have UV stabilization
- Abrasion treatment by sand in the tank, when used in water treatment plants without pretreatment
- Material is not allowed to come into contact with hot objects – for example by welding
- Material is not allowed to come into contact with higher concentrations of alcohols, ketones, saturated and aromatic hydrocarbons, polar solvents and halogenderivates of hydrocarbons. During long-term contact material can be seeded-up and can occur the reduction in its mechanical properties. Please contact us in case of treatment of industrial wastewater with high concentration of above mentioned substances.
- Material is not allowed to come into contact with solutions of alkalis, mineral and organic acids, whose even very low concentration can cause chemical degradation of the material by long-term contact. Please contact us in case of treatment of industrial wastewater with high concentration of above mentioned substances.
- Material is getting older much more faster by higher temperature of the water.
- Temperature of the supply air to the membrane is not allowed to have more than 70 °C.

### Transport:

Membrane can only be transported wrapped in protective cover without access to UV radiation.

The temperature during transport should not exceed 40 °C. Lower minus temperatures up to -5 °C are ok for the membrane, but it is necessary to leave the membrane at room temper before handling.

### Storing:

It is necessary to avoid possible contact with daylight by storing the membrane.

The room temperature during long-term storage should not exceed 25 °C, in short-term 40 °C, relative humidity should be up to 50%. Lower minus temperatures up to -5 °C are ok for the membrane, but it is necessary to leave the membrane at room temper before handling. In the room must not be stored substances which can damage the membrane.

### Operational maintenance:

The membrane has its own natural purification capacity and ensures the self dewatering, therefore we do not recommend the use of chemicals for rinsing as well as like addition them to the supply air. There is a risk that by using chemicals their limited concentrations can be exceeded, and it can reduce durability of the membrane. This warning is valid especially for formic acid.

We recommend to clean possible sludge deposits or incrustations by short-term increase of supply air quantity.

### Warranty:

The warranty is given according to the business contract.

The warranty does not cover damage mentioned above (see part „The risks of damage by handling“).

The warranty is not valid in case the membrane was chemically cleaned.

The warranty is valid under conditions of storage, transportation and handling only.