

Multi-Vent Underliner System



Multi-Vent Underliner System is a patented, innovative and cost effective system designed to protect pond and lagoon liners from damage caused by methane gas and water accumulation. It can also serve as a leak detection system for the liner. Providing gas venting, drainage and leak detection in one system is effective and cost-efficient. The documented strength, capacity and longevity of this system make it a logical choice for pond liner protection.

The Problem:

Nearly every pond builder has likely encountered a pond where the liner floated up off the bottom due to excess water or air buildup under the liner. Areas where the soil is high in organic matter tend to give off excess methane gas while other areas have a high water table, especially after large rain events. Both of these can cause the liner to float part way to the surface, all the way to the surface or in extreme cases the liner will float above the surface creating what are commonly called "whale backs" (see photo). Previously the only way to vent this water or air from under the liner was by cutting the liner and installing a vent.



Liner "whale backs" can result from accumulated ground water, air bubbles or a combination of the two. This occurs when there is no venting or drainage installed below the liner.



The Solution:

Multi-Vent is a series of perforated tubes that install under the liner. The tubes are wrapped in a non-woven geotextile to prevent plugging. By simply laying a strip of Multi-Vent on the ground before installing the liner you can prevent costly future problems. This easy to install system is effective, low cost and best of all does not require cutting the liner.

It takes a great deal of pressure for the water or air to lift the liner. With Multi-Vent, neither water nor air can build up pressure under the liner. Instead it will vent

through tubes to the outside of the pond, eliminating any chance of the liner floating. Because of its low cost, Multi-Vent is cheap insurance under any liner job!!



Made in the U.S.A.

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Multi-Vent lines are rolled out over the prepared surface and are covered by the pond liner. This method avoids the need for trenching and it locates the Multi-Vent right where methane and other gases are most likely to accumulate.



Most often each end of Multi-Vent is simply extended out beyond the liner allowing the air or water to drain out. You can also use Multi-Vent to capture ground water in a sump or monitoring pit. Multi-Vent can be connected to 3" pvc pipe which would carry the water to the sump. A submersible pump with automatic on/off floats can be used to remove excess water.

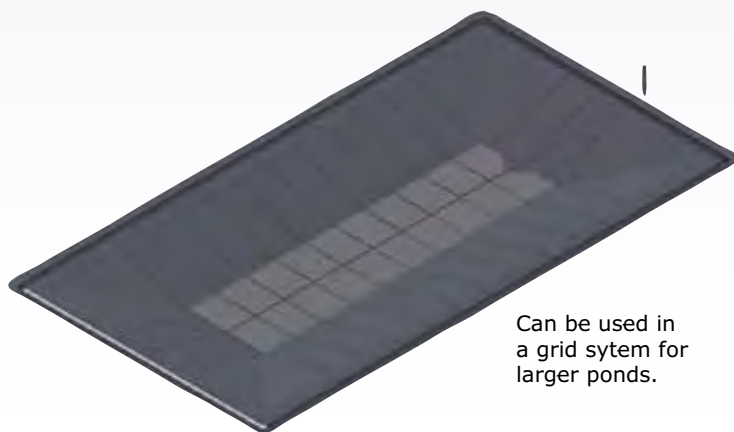
Multi-Vent is easy to install. Typical installation uses one strip of Multi-Vent every 15'. For ponds 30' or less, one strip should be enough. In larger ponds multiple strips can be run under the liner, each venting beyond the liner perimeter or they can be

hooked together in a manifold/grid system.



Multi-Vent is available in 25' and 100' rolls and can easily be cut to length or joined together using fittings shown at left. End caps are used on open ends to prevent foreign objects from plugging the tubes.

A properly planned Multi-Vent system saves money, speeds installation and dramatically extends the life of a liner.



Can be used in a grid system for larger ponds.

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