



DIATOMIX

Improve your water management - Cost reducing solution : Diatomix

Greenmix has specifically developed *diatomix* and *diatomix plus* to deal with the need of agricultural products in water poor areas.

It can be assumed that water can be found anywhere if drillings are done. The problem, however, is that the water does not retain on the surface after irrigation, i.e. the roots, long enough for the roots to be able to develop sufficiently. The water simply leaks into the loose soil, useless for any kind of agriculture.

Diatomix plus was developed for these areas. Slow working fertilizers are added to the raw base of *diatomix*. This mixture retains the water and keeps the soil around it moist. The added fertilizers nourish the roots, enabling some agricultural activities.

Diatomix has joined in this effort to provide 100 % natural products that are guaranteed to solve these stressful growing conditions

The harvest is determined by the amount of water available. *Diatomix plus* gives the farmer a maximum result for a minimal amount of available water.

Diatomix is a 100 % natural mineral mix with an ultra fine pores structure. This structure makes it extreme absorbing, an ideal fertilizer carrier and it increases drainage. It also improves the health and root density of your turf.

Dried *diatomix* absorbs over 250 % of water. *Diatomix* is a proven way to add permanent porosity to your soil, which leads to a better harvest and reduced maintenance requirements. It is designed to advance long-term crop and land health. *Diatomix* solves and prevents problems with regard to compaction, soil drainage and lack of soil oxygen (air).

Diatomix has been developed in our laboratory while we were doing research on clumping animal litter. *Diatomix* is born as a mixture of extreme absorbing light weight minerals.

Advantages

- Reduces the amount of irrigation required per cycle, the moisture levels in *the thatch layer are lowered, minimizing the conditions that cause fungi, algae and disease*
- rapidly improves plant appearance and health by stimulating plant feeding, moisture uptake and nutrient retention. It has excellent filtration properties allowing water to flow through the soil matrix freely and hold the water for plant uptake
- encapsulates water molecules and holds water in the root zone for extended periods of time
- reduces surface friction allowing for more rapid water penetration and filtration into any soil condition and allowing the water to flow evenly throughout the soil profile. This prevents excessive moisture, which causes fungi, and provides immediate relief from localized dry spots
- rapidly extracts water from playing surfaces during heavy rains or irrigation preventing puddling and allowing for a faster return to play
- is made from an inert material and contains no known harmful substances
- when applied to the soil properly, water consumption will decrease drastically. Diatomix is added to the roots and absorbs water where necessary. Excessive water will not drain away into the soil
- more and deeper reaching roots
- less risk on dry patches
- as diatomite is used as a common pesticide, it is highly possible that it is effective for pest control in the soil as well

Composition

Diatomix mineral mix based on dried and crushed diatomite
Diatomix PLUS diatomix + fertilizer blend

Test

We tested several existing raw minerals on absorption. 10 grams are used and water was added until full saturation was achieved.

Water-lok	Diatomite raw	10 cl H ² O
Zeolite	zeolite	6 cl H ² O
DIATOMIX	Diatomite + granule	25 cl H²O

Application rate is given as a guide

Farmland 1 kg / m² (10 000 kg / ha)

Other uses

New plants or trees can be planted in planting holes with a bottom layer of *diatomix*.



Bentomix is a 100% mineral, based on extruded clay granules. This 100% natural product is perfectly suited as natural water sealer. The granules are simply scattered across the soil in a layer of 5 cm. The water turns the top layer into a waterproof gel. Plants, however, easily grow through it.

Bentomix enables water basins to be constructed anywhere.