



# AQUAHOLDER



## Seed applied soil conditioner for enhanced drought resistance



**Drought resilient seeds**  
Better start, support  
for high yields



**Healthier plants**  
Improved germination  
and emergence



**Environmentally friendly**  
Microplastic free,  
biodegradable and biobased



**Industrially applicable**  
Proven industrial process



**Standard handling**  
Easy logistic, storage  
and sowing



**Food security**  
Increased seed resistance,  
more food

## What is AQUAHOLDER?

Aquaholder is a product designed for hydrostimulation. The goal of hydrostimulation is to bind moisture/soil moisture after the sowing into the soil and then form a layer of hydrogel around the seed, from which the seed is able to absorb water.

The hydrogel layer around the seed serves as a reservoir of water that would not otherwise be available for the seed, due to the lower frequency of precipitation, or the drainage of water into the subsoil, which is out of the reach of the seed. Better start, supported by Aquaholder, provides conditions for more efficient crop production.

For more information visit [www.aquaholder.com](http://www.aquaholder.com)

### Primary benefits:

- Mitigation of drought stress in early stages
- Enhanced seed germination and emergence
- Better start, improved vigor and higher biomass

### Secondary benefits:

- Carrier for nutrients and microbes
- Improved plants uniformity
- Support regrowth of biologicals after planting
- Improved uptake of low water-soluble actives



Why to use  
Aquaholder?



What is the active substance  
of Aquaholder and how does it work?

### Effect proven on field crops:



Corn



Oilseed rape



Barley



Sunflower



Wheat



Sorghum



Soya



Sugarbeet

### Effect proven on vegetables crops and grasses:



Carrot



Onion

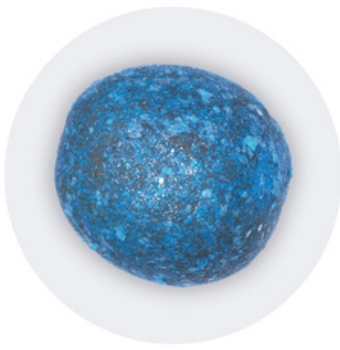


Grasses

### Product characteristics:

- Microplastic-free
- Plantability
- Application
- Seed safety
- Efficacy
- Regulatory

Microscopic view of  AQUAHOLDER layer



Activated superabsorbent



Proven in lab and field conditions







Aquaholder product  
now available



## The Aquaholder project is realized by PEWAS

Pewas is a research organization focused on the research of alternative use of superabsorbent polymers in various industries. Pewas has analytical and production laboratory facilities, a team of laboratory researchers and more than 10 years of research of the effect of superabsorbent polymers and hydrogels on seeds and agricultural substrates.



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