



AQUAHOLDER



Seed applied soil conditioner for enhanced drought resistance

 **Drought resistance**

 **Improved germination**

 **Better start**

 **Enhanced yield**



**Why to use
AquaHolder?**



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

What is AQUAHOLDER ?

Aquaholder is a product designed to mitigate abiotic stress, provide drought relief and support better start.

The active layer created around each seed attracts water and allows the seed to germinate and grow normally even under drier than usual soil conditions.

This better start supported by Aquaholder coating creates predisposition for higher yields also in favorable conditions or even in high moisture conditions.

Primary benefits:

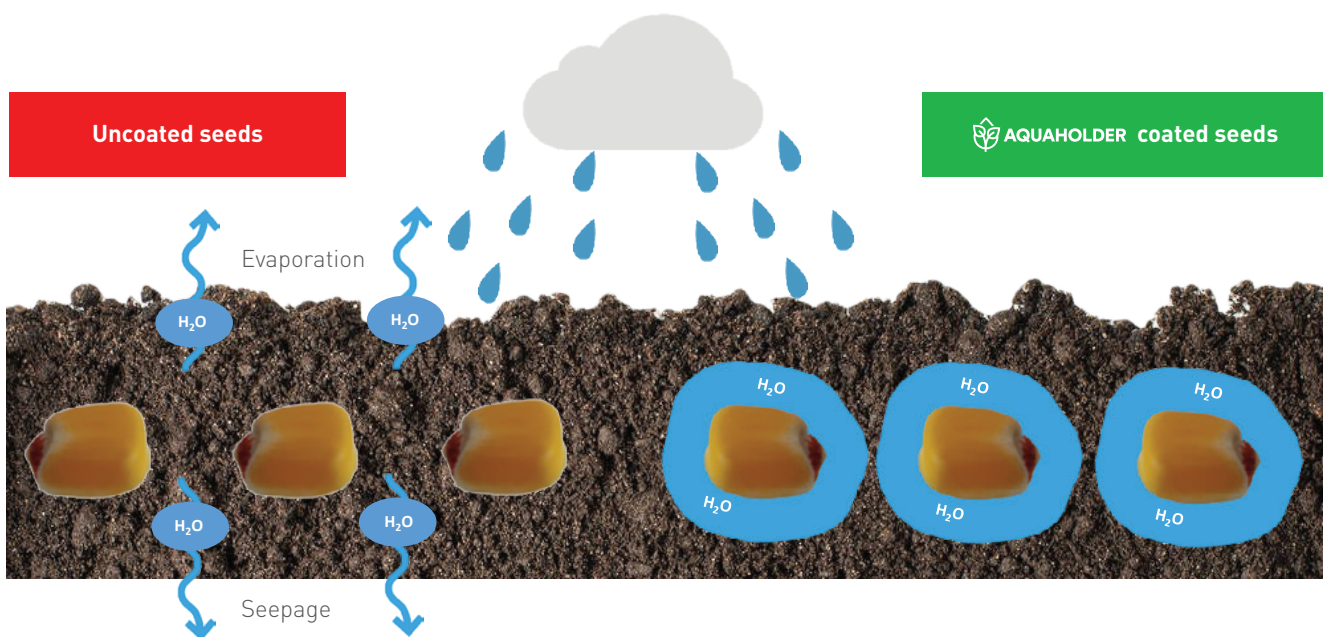
- Enhanced speed of germination and emergence
- Improved plant uniformity
- Increased root & shoot biomass
- Increased plant resilience

Secondary benefits:

- Carrier for nutrients and microbes
- Improved uptake of low water soluble actives
- Reduced leaching of actives into the soil
- Support microbial regrowth

Product characteristics:

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



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

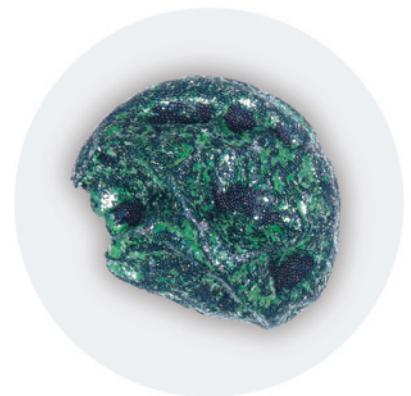
This latest water-compatible formulation represents our microplastic-free powder solution, engineered for precise seed treatment. Its optimized composition enhances growth and of all type crops and vegetables, while allowing flexible integration into water-based pesticide slurries.



All-in-one slurry

- Water compatible
- Simple application
- Compatible with seed treatment products
- Suitable with all type of crops
- Film coating, pelleting, encrusting

Microscopic view of AQUAHOLDER layer



Effect proven on the following crops:

Field crops



Corn



Oilseed rape



Barley



Sunflower



Wheat



Sorghum



Soya



Sugar beet



Cotton

Vegetable crops



Carrot



Onion



Red beet



Lettuce



Radish

Grasses, turfs, forage and cover crops



Grasses



Alfalfa



Clover

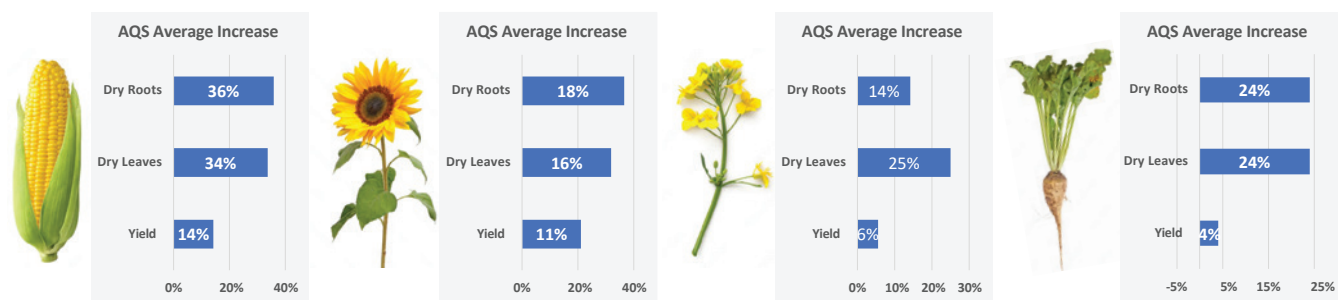
...and others

[according to customer request]

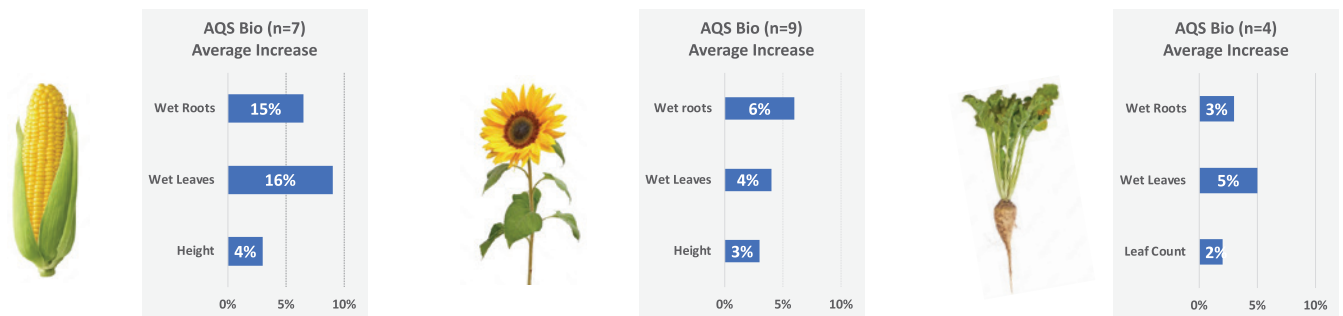
Validated in 5 continents



Microplots trials 2022 (dry season)



Microplots trials 2023 (wet season)



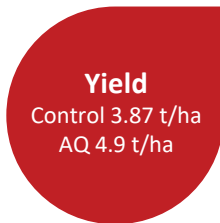
Microplots trials 2024



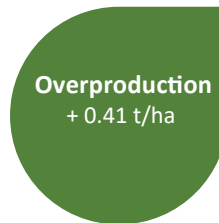
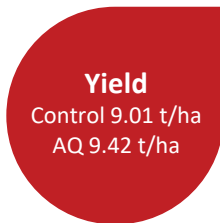
Farmers' experiences – large-scale production trials in Slovakia



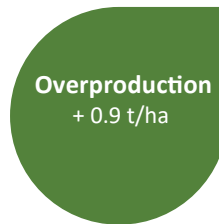
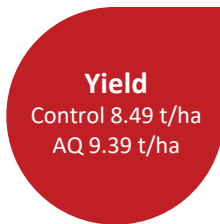
Location: western Slovakia
 Crop: WOSR
 Year: 2021/2022



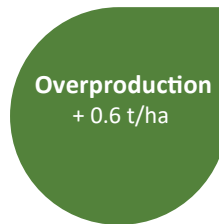
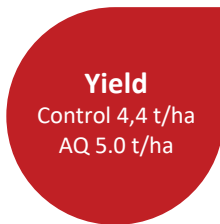
Location: western Slovakia
 Crop: Corn
 Year: 2023



Location: western Slovakia
 Crop: Corn
 Year: 2024



Location: western Slovakia
 Crop: WOSR
 Year: 2024/2025
 dry season





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 12 years of research of the effect of water retaining agents on seeds.



Why to use
Aquaholder?



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

PEWAS
Innovative chemistry since 1992

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