

## WATERMAXX<sup>®</sup> - MAXXIMISE YOUR AVAILABLE WATER

WaterMaxx 2 helps growers use water more efficiently and maintain crop productivity by improving the way water moves through soils. WaterMaxx 2 works in all soil types, significantly increasing the vertical and horizontal movement of water for more uniform soil wetting and subsequent growth.

### Benefits

- **Infiltration:** Improves infiltration so that water and nutrients move into the rootzone quickly and evenly
- **Distribution:** Improves the lateral movement of water, increasing the horizontal reach of water
- **Retention:** Improves the availability of water and nutrients to the plant, increasing crop productivity

### Other

**Application rate:** Varies per application method. Refer to product label for specifics.

**Specific Gravity (at 20°C):** ~1.0209

**pH:** 5.0 - 7.0

**Colour:** Dark Amber Liquid

**Compatibility:** Incompatible with strong oxidising agents, strong acids. Refer to product Safety Data Sheet

**Storage:** Keep sealed in original container. Store in frost-free, dry conditions out of direct sunlight, above 5°C and below 30°C

### WaterMaxx 2

Below demonstrates improved water infiltration, distribution and retention.

*WaterMaxx 2 at 2L/ha*



*Untreated*



### Application Rates & Methods

Injection through irrigation systems	Inject at 2.3L - 9.4L/ ha through any type of irrigation system (except earthen ditches)
Conventional sprayers	Apply at 2.3L - 9.4L/ ha. For enhanced performance, irrigation or rainfall should follow application.
Transplanting	Add 0.25L to 1L/ 1000L of transplant water
Fallow bed treatment	Apply 2.3L - 9.4L/ ha to fallow beds in advance of rainfall events to increase water infiltration and to reduce water run-off

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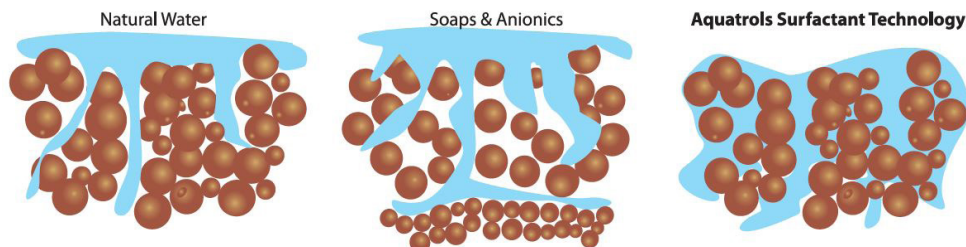
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# Tech Notes

## How it Works

### Not all surfactants are the same

The molecular structure of a surfactant can significantly influence water distribution once in the soil profile. Surfactants differ in size, shape, molecular weight and structure. Each of these characteristics can influence the way in which water attaches to the soil particles, how uniformly it hydrates and its impact on drainage (see graphic). The patented synergistic and novel surfactant technology in this Aquatrols formulation is based on two non-ionic surfactants.



- Follows path of least resistance
- Finger-flow or channeling
- Adhere to available soil sites

- De-flocculate soil structure
- Increases build up of fine particles
- Unable to properly hydrate soils
- Exacerbates water retention problems

- Improves infiltration rate
- Improves hydration & retention
- Improves movement of water
- Improves soil moisture conditions

## How Does it Work?

### Moves Water *to* the Soil - Not *Through* the Soil

This technology bridges the gap between the water repellent soil particle and available water. Our patented two-pronged technology enables this formulation to address water movement issues caused by surface tension and enables the hydration of water repellent soil particles resulting in more uniform distribution of water throughout the soil profile. Aquatrols Surfactant Technology increases capillary (plant available) water and maintains water in soils, optimising water uptake and increasing nutrient uptake resulting in better plant health.

## The Situation

### (Figure 1)

Hygroscopic Water directly contacts the soil particle making a very thin film around it. It is very tightly bonded to the soil and is not available to the plants. However, it is important because it needs to be there for capillary water to accumulate over it.

Capillary Water can move through the soil laterally and upwards through capillary action and will remain in the rootzone after irrigation or rainfall, providing water and dissolved nutrients to the plant. The lower range of capillary water is the wilting point, and the upper range is field capacity.

Gravitational Water is in excess of field capacity and leaches through the soil. It is affected purely by gravity and is not available to your plant.

Figure 1

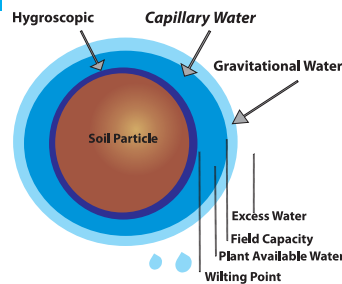
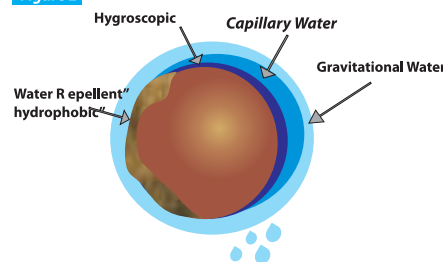


Figure 2

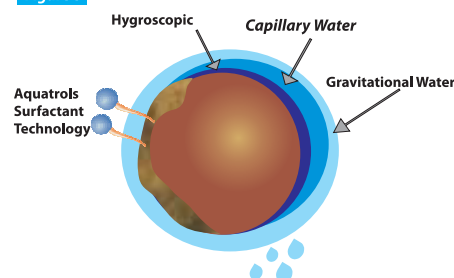


## The Problem

### (Figure 2)

A water repellent region (organic material) on the soil particle prevents water from adhering to it; when that occurs, all of that region's water holding capacity is lost.

Figure 3



## The Solution

### (Figure 3)

Aquatrols Surfactant Technology is specifically designed to attach to water repellent areas of the soil, bridging the gap and allowing water to move through the soil and stay in the rootzone.



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