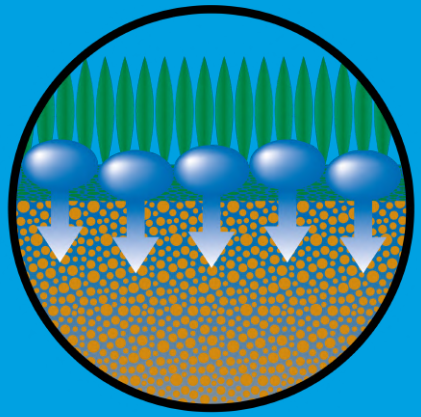
COMPO EXPERT®



# Kick®

## Concentrate

Kick®

## Contents.

# Kick®

From fine turf golf greens to sports turf football stadiums, as turf mangers we all face the same challenge to maximise the effectiveness of irrigation and rainfall events and reduce the drying out process.

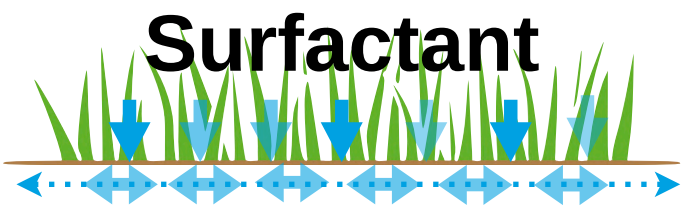
Kick® helps maintain a greater level of control when managing soil moisture to create superior turf surfaces all year round.

Kick® is our most sustainable soil moisture management solution without micro plastics and is gradually broken down by soil microbial activity.

# Kick®

## Dual chemistry. Triple action.

## Surfactant



1. Penetrating power disintegrates water droplets to spread evenly across the surface and within the soil.
2. Redistributes forces of water to optimise water, oxygen and nutrients in the soil.
3. Superior wetting action provides rapid water infiltration and lateral distribution in the soil.

## Humectant

1. Converts plant unusable root zone humidity into useable micro droplets of water.
2. Droplets are held tightly enough to prevent it from leaving the proximity of the root, but lightly enough to allow the root to absorb the water through osmosis.
3. Once these components attach to the roots and soil particles, they remain attached and are resistant to further movement in the soil, while continuing to attract and retain water.
4. 

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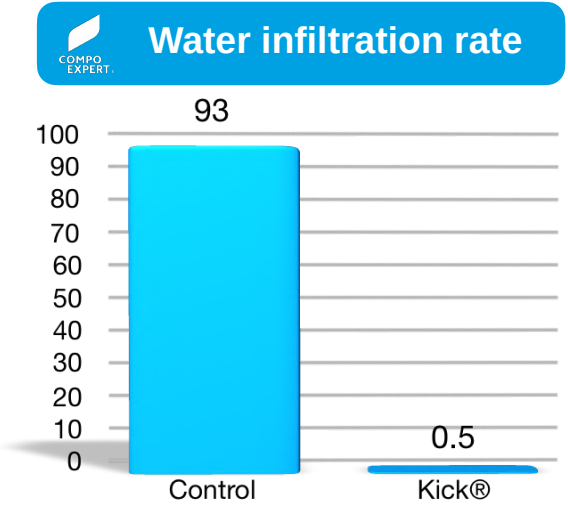
# Kick®

## Superior penetration.

The superior penetration of Kick® is achieved by its 58% surfactant technology that rapidly breaks down water surface tension and can infiltrate as fast as 0.5 seconds.

Horizontal distribution of water is significantly increased further encouraging water movement down, deep and laterally. This improves oxygen, moisture & nutrients in the rootzone keeping turf healthy and performing its best all year round.



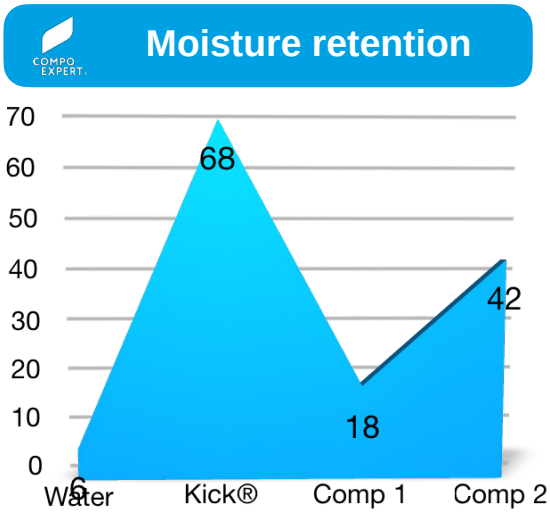

*Penetration time in seconds*

Applying Kick® at a rate of 2.5L/Ha resulted in a very significant reduction in time of water droplet penetration into the soil.

**Essai mené par RITTMO - France Centre de Recherche Agroenvironnement 2011**

# Kick®

## Moisture retaining power.




*Weight measured in grams*

**Kick®** applied at a rate of 2.5L/Ha resulted in the best moisture retaining wetting agent against the next two leading competitors. **116%** more moisture retained than competitor 1 and **41%** compared to competitor 2.

**COMPO EXPERT - Germany 🇩🇪, Wolbeck 2022**

The moisture retaining power of Kick® is partly achieved by its 17% humectant technology that converts root zone humidity into micro droplets of water which are held tightly for roots to absorb.

Creating such a positive effect on plant-soil-water interaction also maximises nutrient assimilation, increased solubilisation and most importantly of all, leaching is minimised.



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# Kick®

## Water saving ability.

Kick® utilises both surfactant and humectant components for its water saving super power. Its ability to optimise irrigation and rainfall events conserves water that will reduce drought frequencies and ultimately prevent hydrophobic conditions.

Kick® continues to effectively minimise the loss of soil water to evaporation by capturing escaping water vapor back into a plant useable liquid form. Now thats cool!

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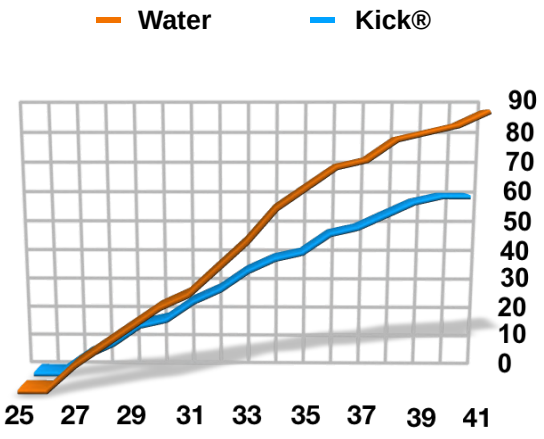
**Volume of water**




Kick® achieved the same levels of moisture, sward density and colour with **32%** less water.

**France – 2013 et 21014**

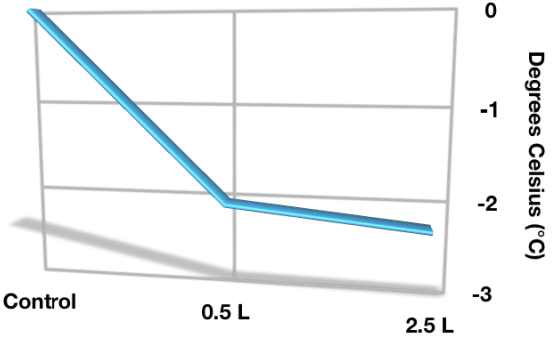
# Kick®

## Reducing the freezing point.

Utilising both parts of its formulation, Kick® has been scientifically proven using DSC (Differential Scanning Calorimetry) to lower the freezing point of soils by -2.2ºC.

This provides extra frost protection during those early spring / late autumn days protecting your turf from damage, keeping soils warmer and allowing play to commence earlier than every before.

### The point of freezing



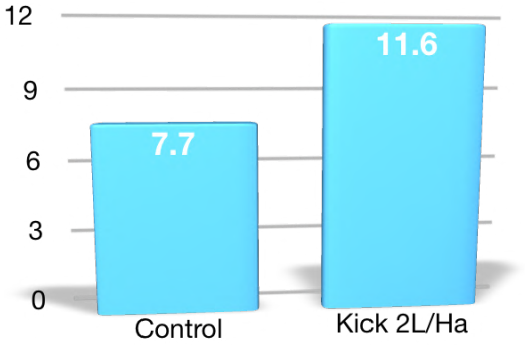

Applying Kick® at both 0.5 and 2.5 L/Ha significantly reduced the point of freezing down to **-2°C** and **-2.2°C** respectively

**Trials conducted by RITTMO-France. Centre de Recherche Agroenvironnement 2014 by the method DSC (Differential Scanning Calorimetry)**

# Kick®

## Aids the speed of germination.

### Seed germination




Kick® application produced a significant increase of **50%** on fresh weigh biomass after 3 weeks compared to control.

**Trials conducted by RITTMO-France. Centre de Recherche Agroenvironnement 2014.**

The humectant component comes back into play here, to aid the speed of germination and increase establishment.

When applied over the seed and into the seedbed, Kick® reduces the drying effects in between irrigation and rainfall events. Therefore, the seed is able to germinate more rapidly, and then establish due to more favorable moisture conditions.

# Kick®

## Product information.

Besides being a sustainable soil moisture management solution, Kick® also has benefits when it comes to product packaging and the environment.

A highly concentrated formulation with minimal water carrier enables us to use compact and lightweight 2.5L bottle, saving on transport costs and the over use of plastic. Kick® also has no foil seal that would otherwise have to be disposed. All these benefits alongside the flexibility and ease of use make Kick® a superb product solution.


## Application

Pack size - **2.5 L**
Pack coverage - **1 ha**
Application rate - **2.5 L/ha**
Water volume - **600-1000 L**
Frequency - **Every 4 weeks***

* Depending on environmental conditions

## Areas of use

- **Greens**
- **Stadia**
- **Tees**
- **Outfields**
- **Fairways**
- **Lawns**

## Application timing

**Spring**: M A M
**Summer**: J J A
**Autumn**: S O N
**Winter**: D J F

**All-year round use for soil moisture management**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