



# Aquaritin

## 19

Aquaritin 19 delivers colour, density and protection against biotic and abiotic stress through the playing season.

Aquaritin 19 uses breakthrough Nanotechnology to deliver Bioavailable Nitrogen, Phosphorus & Potassium along with 7 other nutrients directly to the plant leading to greater turgidity, cleaner cut and truer ball roll. It also increases mechanical & environmental resistance along with other abiotic & biotic stresses.

It contains N, P & K along with secondary nutrients Calcium & Magnesium, and micronutrients Iron, Zinc, Boron, Molybdenum and Silica.

On a molecular level the particle sizing is between 1 & 30 nm which means the nutrients are absorbed straight through the leaf cuticle without the need for stomatic opening meaning a much more efficient way to deliver required nutrients to the plant.

As 40%-70% of traditionally applied Nitrogen is lost to the environment leading to environmental pollution, wasting of resources and finance Aquaritin 19's breakthrough technology outperforms other Nitrogen sources at every level.

Each nutrient is absorbed into a nano-silica molecule preventing them from bonding with each other, water or volatilising. Silica is renowned for being difficult to tank mix, however due to Aquaritin 19's formulation it mixes easily with PGRs, fungicides, fertilisers and most other products leading to enhanced results and greater flexibility of rates.

Nanosilica is known to enhance plant resistance against biotic and abiotic stress. Over time this can result in lowering the applications of fungicides and pesticides.

Aquaritin delivers bioavailable silicon in a micronized spray to boost the absorption of minerals. The accumulation of Si in leaves is advantageous not only for UV-B irradiation defense, but also for cooling leaves in heat stress conditions.



Aquaritin 19 reduces the negative effects of drought on the chlorophyll content and light use efficiency of grass, providing defense in the event of prolonged water shortage.

Aquaritin 19 fortifies the barrier structures of endo and exodermal cell layers, preventing water leakage from the central cylinder towards soil or other surrounding substrate, limiting water loss.

#### In short Aquaritin 19 will:

- Quicker green speed without lowering the height of cut
- Healthier swards without the hassle of tank mixing multiple products
- A more sustainable and environmentally conscious approach
- To eliminate volatilisation, run off, and leaching
- Increased longevity for your fungicide applications

**Avoncrop Amenity Products Ltd**

Tel: 01344 891730  
sales@avoncrop-amenity.com

✉ @avoncropamenity  
www.avoncrop-amenity.com



As we move into a period where extreme climatic conditions are becoming the norm, we must adapt and use the tools we have available to negate the abiotic stresses that are putting pressure on the turf ecosystem. Aquaritin 19 is one of those tools, there is a plethora of independent research and data backing Silica's use in these situations to overcome abiotic stresses such as drought, salinity & freezing.

Under drought stress Silica has been shown to maintain a higher water content by reducing transpirational losses. Whilst under salt stress conditions of salinity it's been shown to prevent the root uptake of sodium and/or its transportation from roots to shoot tips. When we come to freezing it has been reported that Silica could enhance freezing tolerance by alleviating water deficit stress caused by freezing induced cellular dehydration, so simply putting it why wouldn't you be using Silica in your maintenance program?

## Application

### Application Rate

400 ml – 1.5 litres per Hectare every 14-28 days

### PACK SIZE:

**1 litre**

## Testimonials

"After using Aquaritin 19 for two consecutive growing seasons, the results speak for themselves. Our turf is stronger, healthier, and far more resilient. Treated areas consistently withstand heat and disease stress, which means less irrigation and fewer fungicide applications—saving both time and money. On top of that, we've seen a dramatic reduction in the need for nitrogen-based granular feeds. Aquaritin 19 delivers proven results, transforming turf performance for course managers who want stronger, healthier, and more consistent surfaces."

**Robin Jackson – Head Greenkeeper  
BRAMLEY GOLF CLUB**

"Aquaritin 19 has completely transformed our turf management. Since introducing it, we've seen outstanding improvements in soil health and turf quality. Its advanced formulation boosts nutrient absorption, optimizes moisture retention, and keeps green speeds consistent—delivering surfaces that perform at the highest level. These results have allowed us to maintain and elevate playing conditions across both courses with confidence. If you're serious about achieving superior turf performance, Aquaritin 19 is the solution you've been looking for."

**Christian Hodder – Deputy Head Greenkeeper  
HORSHAM GOLF/HORNE PARK**

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