



Aquaritin Defend

Protect your investment
in your greens and fairways
with Aquaritin Defend

Aquaritin Defend uses breakthrough nanotechnology to deliver micronised Silica and 12 other essential micronutrients directly to the plant in a single easy to use formulation.

Aquaritin Defend is an advanced nanoscale liquid foliar spray which combines a balanced mix of 13 plant nutrients in a single formulation. It contains Phosphorus & Potassium along with secondary nutrients Calcium, Magnesium & Sulphur and micronutrients Iron, Manganese, Zinc, Copper, Boron, Molybdenum, Cobalt & Silica. The molecular size is between 1 and 30 nm.

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 Defend's formulation it mixes easily with PGRs, fungicides, fertilisers and most other products leading to enhanced results and greater flexibility of rates.

Aquaritin Defend will give you a colour response without any growth flush, improve green speeds without lowering the height of cut. Better defence against abiotic & biotic stresses such as drought, extreme heat, salinity, frost & flooding.

It will also aid the plants own mechanisms against biotic stress factors such as disease and pest attack. Silicon promotes greater photosynthesis, cell wall strength, plant rigidity, root development and water efficiency.

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

In short Aquaritin Defend 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

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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 Defend 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 programme?

Application

Application Rate

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

PACK SIZE:

1 litre

Testimonials

"We used Aquaritin Defend and Aquaritin 19 during the construction of a USGA-spec 9-hole golf course at Bearsden Golf Club. From the very first application, we noticed reduced fertilizer requirements and significantly less turf stress—evident in the improved green colour and lower disease pressure. Following construction, we chose to continue using these products because we were impressed by how little product was needed and the reduction in watering requirements."

**David McBride – Course Manager
BEARSDEN GOLF CLUB**

"Aquaritin Defend has been an essential part of our turf hardener mix for the past couple of years, applied at fortnightly intervals throughout the year. We've seen a significant increase in seed head suppression without any flushes of growth, resulting in truer and faster greens. Our members consistently compliment the quality of our greens all year round."

**Allen Blizzard – Course Manager
ROYAL BLACKHEATH GOLF CLUB**

"Since trialling Aquaritin Defend in our spray tank, we've never looked back. The easy-to-mix silica is applied alongside our greens program every 2-4 weeks during the playing season. This has delivered fast, true surfaces that members and visitors at Chislehurst Golf Club consistently compliment. The improved quality of our greens has even enabled us to host two Kent County events and become a home venue for Kent's Men's 1st Team in 2025."

**Russell Bain – Course Manager
CHISLEHURST GOLF CLUB**

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