For over 50 years, Aquatrols has built a global reputation for innovation, reliability and value by delivering the results you need to achieve success.

Now, more than ever, making the best use of water and other resources is essential -- and Aquatrols is leading the way. Our team of scientists and technical professionals are continually seeking more effective solutions to address the unique challenges of both the industry and your course.

Trust Aquatrols® to improve your turf conditions.
Surfactant Products

Golf course superintendents worldwide rely on Aquatrols® surfactants to optimize soil/water/plant interactions, improve irrigation efficiency, and save water and energy. Find the product below that best suits your needs.

Greens & Tees

- Revolution®
- PRIMER®

Fairways

- Dispatch® Sprayable

Coursewide Injection

- Dispatch® Injectable

Soil & Water Quality Management Products

Aquatrols® offers a complete line of products to help solve soil and water quality issues, and to help manage plant stress. We provide solutions for the most difficult salt, sodium and carbonate problems.

- AQUAPLEX amino³
- BLAST INJECTABLE®
- BLAST SPRAYABLE®

Specialty Products

Desiccation Protection

- LeafShield® Anti-Transpirant
Revolution is not your typical wetting agent.

It’s the only soil surfactant that can balance air to water ratios in the rootzone under wet or dry conditions. By managing moisture more efficiently, Revolution keeps surfaces drier for firmer greens and better playability. This patented formulation gives you consistent control for healthier turf and better playing surfaces all season long.

- Produces drier, firmer putting surfaces
- Allows deep and infrequent irrigation without sacrificing playability
- Dramatically reduces the need to hand water
- Strengthens plant’s natural ability to withstand stress and disease pressure

Also available in spreadable water dispersible granular formulation.
Trials conducted at Virginia Tech (2003) showed that Revolution treated turf maintained great turf quality and withstood the effects of environmental stress.

**Keep Moisture Levels Uniform**

Trial results from the University of Arkansas (2005) indicate that the regular use of Revolution results in more uniform soil moisture under a wide variety of conditions. When more water than necessary was applied, the Revolution treated plots had lower, more favorable soil moisture levels while the untreated plots' moisture levels were excessively high (a). When drought conditions were imposed, Revolution retained optimal levels of moisture in the treated plots while the untreated plots dried below acceptable levels (b).

**Maintain Consistent Quality**

Trials conducted at Virginia Tech (2003) showed that Revolution treated turf maintained great turf quality and withstood the effects of environmental stress.

Apply monthly at 190 ml per 100m² in 8 L of water (6 oz per 1000 sq. ft. in 2 gallons of water). For full plant health benefits, Revolution must be applied one month prior to the onset of stress conditions and monthly throughout the growing season.
Dispatch is a patented technology that maximizes irrigation efficiency, allowing you to save water and energy. With two formulations available, Dispatch can easily be injected into your irrigation or tank-mixed with any spray application.

- Greatly increases water penetration and irrigation efficiency
- Significantly reduces runoff on sloped areas: low areas aren’t wet, high areas aren’t dry
- Increases nitrogen fertilizer efficiency
- Moves fertilizer and chemicals into the soil more uniformly for maximum benefit
- Save 20% - 50% in water and energy use
- Better turf performance and playability

Neptune injection pump available. Please see your Aquatrols distributor for details.
**Improve Nitrogen Efficiency**

Studies at Virginia Tech show that leaf nitrogen was significantly greater (P = 0.05) in Dispatch treated plots on four of five measurement dates.

![Graph showing leaf nitrogen percentage over time](image)

**Increase Infiltration / Decrease Runoff**

Studies at California State Polytechnic University, Pomona (2006) show that Dispatch significantly increases infiltration rates and reduces runoff.

Top right: Infiltration was sustained over twice as long in the Dispatch treated plots.

Lower right: Total irrigation runoff was notably reduced in a loamy sand on an 8% slope.

**Dispatch Injectable:** inject through the irrigation system at 1-2 L per hectare (12-24 oz per acre) weekly.

**Dispatch Sprayable:** spray weekly at 0.58 liters per hectare (8 oz per acre), every two weeks at 1.16 liters per hectare (16 oz per acre), or every three weeks at 1.75 liters per hectare (24 oz per acre). Compatible with Primo applications at the rate of 1.75 liters per hectare (24 oz per acre) every 3 weeks.
Primer 604 is a high performance soil surfactant that is the foundation of an effective rootzone management program. It’s safe for all turf species, throughout the entire growing season and in all climates. Primer 604 can help you maintain your greens, tees, and sports turf in several ways:

- Prevents water repellency issues
- Promotes turf uniformity
- Establishes matrix flow in the rootzone
- Flexible application rates to fit different soil types and conditions

*Also available in granular formulation.*
Apply 125 ml per 100 m² in 7.5 L of water (4 oz per 1000 sq. ft. in 2 gallons of water). Apply monthly, beginning at least one month prior to the onset of weather conditions that usually contribute to the development of soil hydrophobicity.

Primer 6O4 does not need to be watered in following application. Irrigate before next mowing or leave baskets off.

**Combat Water Repellency**

Primer 6O4 reduces soil water repellency that commonly occurs in the thatch and upper 1-2 inches of the soil profile of highly managed turf, particularly greens. By managing soil hydrophobicity, Primer 6O4 enhances penetration and infiltration of water into the rootzone throughout the growing season.
Aquatrols Advantage Plus Seaweed Pellets are a convenient supplement to your regular Aquatrols surfactant program. Use Advantage Plus Seaweed Pellets in conjunction with your regular hand watering for quicker water penetration.

- Promotes fast recovery of stressed turf
- Stimulates root growth
- Promotes the growth of healthy, vigorous turfgrass

Apply as often as needed to relieve turf stress. One Advantage Plus Seaweed Pellet will cover approximately 4-6 greens, watering at a rate of 10 minutes per green.

Advantage Applicator is also available. This precision crafted in-line applicator makes touching up areas easier than ever. Please see www.aquatrols.com for details.
Blast Injectable and Blast Sprayable are unique acid formulations combined with Synergy Technology. They safely dissolve carbonate build-up in the soil, rapidly open soil pores for better infiltration and percolation of water, and free up calcium, magnesium and other bound nutrients.

- Available in injectable and sprayable formulations
- Patented Synergy Technology ensures improved penetration, distribution and availability
- Frees up calcium, magnesium, and other essential nutrients in the soil
- Opens pores for better water movement

Aquatrols Patented Synergy Technology is an advanced soil surfactant which improves penetration, reduces run-off and improves product performance.
Blast Injectable and Blast Sprayable dissolve more carbonate than other “safe” acids when irrigating with both pure and 100 ppm bicarbonate water.

**Inject Blast Injectable** at 1-2 gallons per acre (10-20 L/ha) monthly or as needed. For best results inject on a night when applying lower volumes of water. For more severe conditions, inject 2 gallons per acre (20 L/ha) every other week until conditions improve. Maintain conditions by applying 1-2 gallons per acre (10-20 L/ha) monthly or as needed.

Apply **Blast Sprayable** at 32-64 oz. per acre (2.5 - 5 L/ha), with a spray volume of 50 gallons of water per acre (470 L/ha) for fairways and 88 gallons of water per acre (820 L/ha) for greens. Apply once a week for three weeks to get initial effect, and then apply every two weeks as needed through the growing season. After spray application, immediately irrigate the area lightly to wash **Blast Sprayable** off the canopy and into the soil profile.
The cold, drying winds of winter months can be damaging to exposed turf and plants, robbing them of essential leaf moisture they need to survive the season. Give your plants the protection they need with LeafShield.

LeafShield provides a safe, effective, and affordable way to protect your turf, trees and shrubs against winter desiccation. LeafShield is an odorless, non-sticky formulation that mixes easily with water, making sprayer application a breeze; it washes away with soap and water, making cleanup quick and easy. It can be applied in sunny or cloudy conditions, further increasing ease of use.

- Costs less than similar products
- Protects turf against desiccation injury
- Safe for use on all turf and plant types
- Stays flexible and will not discolor foliage
- Will not clog nozzles or damage sprayer pump seals
- Economical enough for fairway protection

Spray turf before first snow cover at 30-60 ml per 100 m² in 4-8 L of water (2 oz per 1000 sq. ft. in 1-2 gallons of water).

Spray trees and shrubs with 63 ml in 1 L of water (8 oz in 1 gallon of water) to protect plants exposed to desiccating winter weather.