

Guide to Canadian Turf Products

Innovative Solutions for Managing Water and Other Resources



An aerial photograph of a golf course, showing a vibrant green fairway, several sand traps, and clusters of trees. The image is used as a background for the advertisement.

Aquatrols®

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

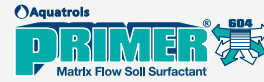
Now, more than ever, making the best use of water and other resources is essential -- and Aquatrols is leading the way. Our team of scientists and technical professionals are continually seeking more effective solutions to address the unique challenges of both the industry and your course.

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



Fairways



Coursewide Injection



Soil & Water Quality Management

Carbonate Removal

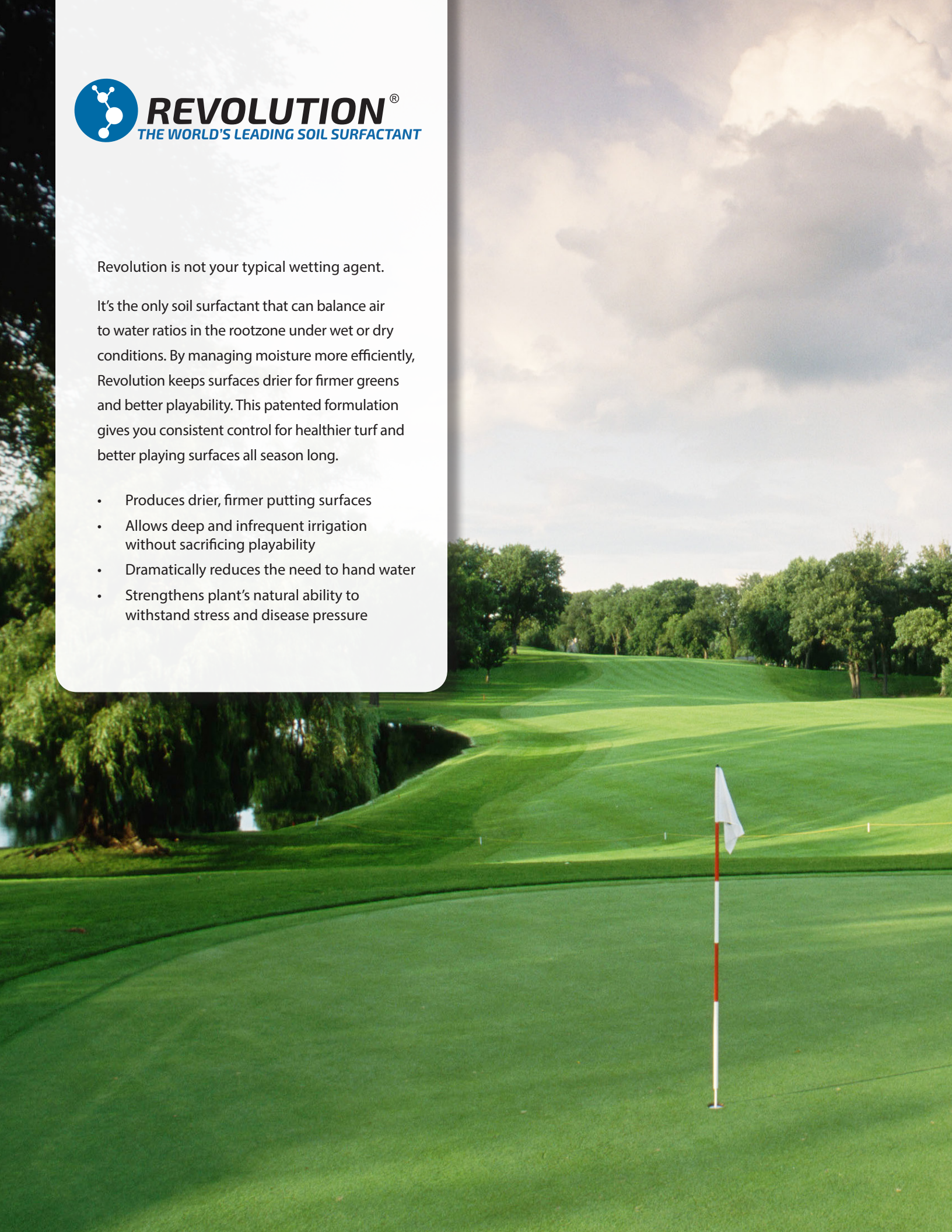


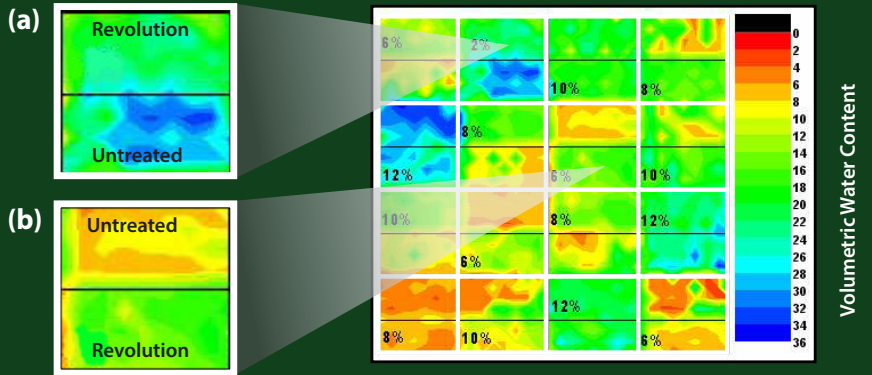


Revolution is not your typical wetting agent.

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



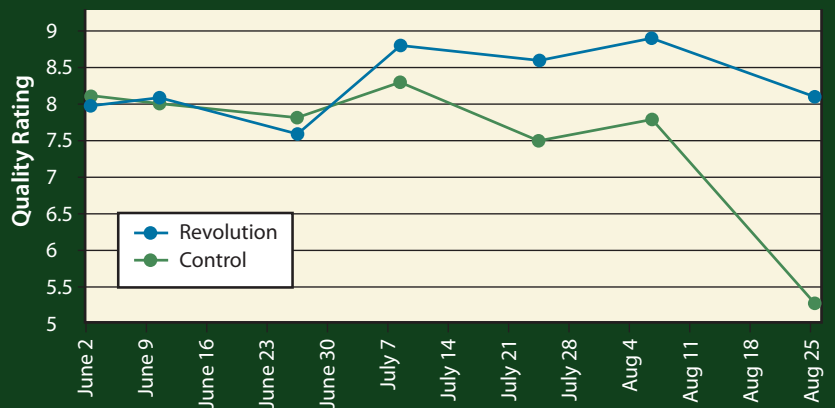


Keep Moisture Levels Uniform

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.

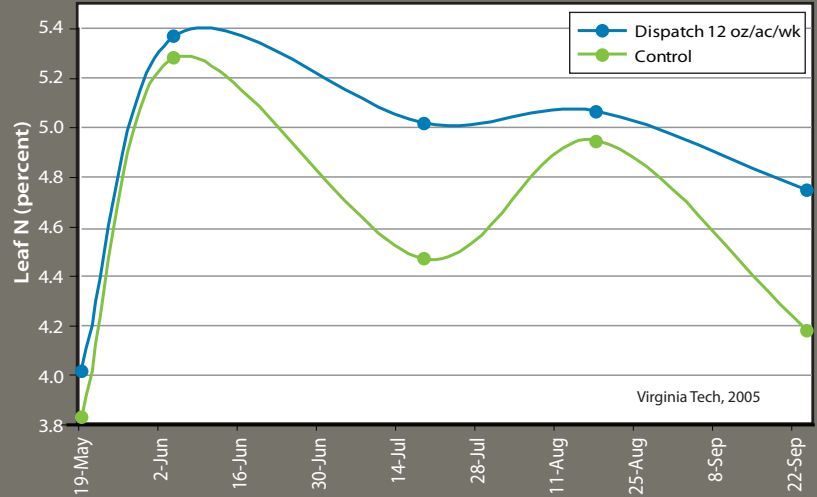
- Greatly increases water penetration and irrigation efficiency
- Significantly reduces runoff on sloped areas: low areas aren't wet, high areas aren't dry
- Increases nitrogen fertilizer efficiency
- Moves fertilizer and chemicals into the soil more uniformly for maximum benefit
- Save 20% - 50% in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





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.



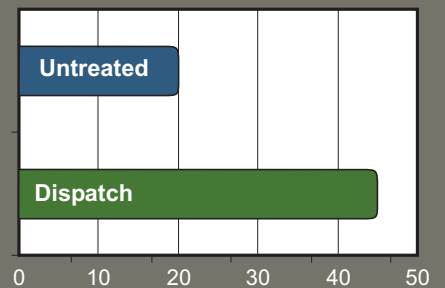
Increase Infiltration / Decrease Runoff

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

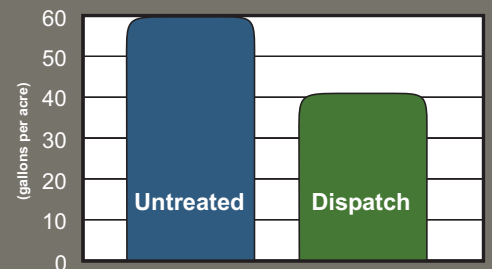
Top right: Infiltration was sustained over twice as long in the Dispatch treated plots.

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

Sustained Infiltration



Reduced Runoff



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.*

Aquatrols

PRIMER[®] 604



Matrix Flow Soil Surfactant

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

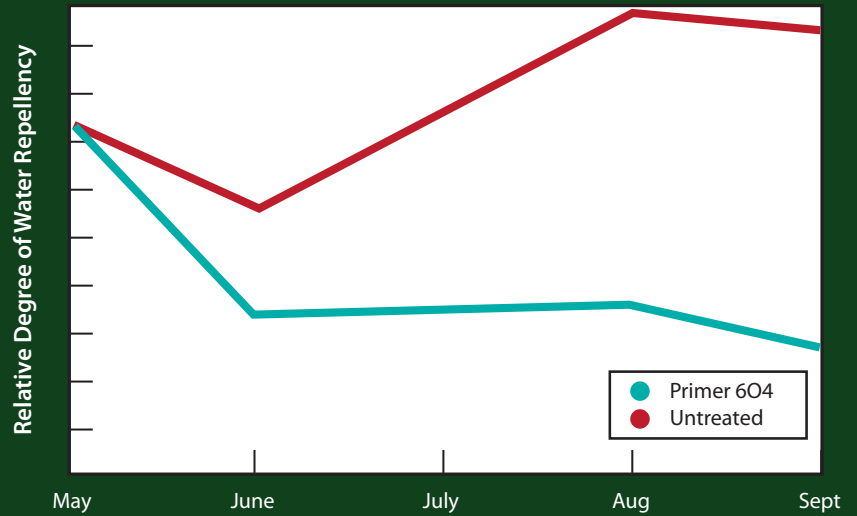
Also available in granular formulation.



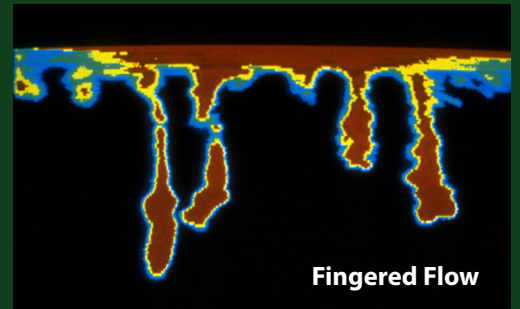


Combat Water Repellency

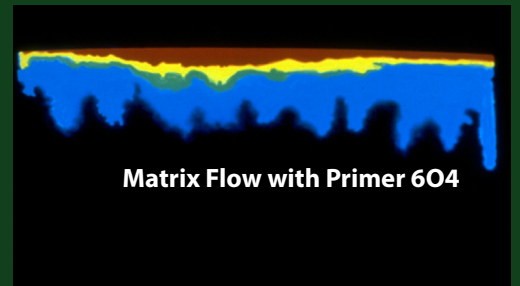
Primer 6O4 reduces soil water repellency that commonly occurs in the thatch and upper 1-2 inches of the soil profile of highly managed turf, particularly greens. By managing soil hydrophobicity, Primer 6O4 enhances penetration and infiltration of water into the rootzone throughout the growing season.



Computer enhanced photo showing "Fingered Flow" water movement through an untreated USGA sand green profile.



Computer enhanced photo showing "Matrix Flow" (uniform downward and lateral flow) water movement through a USGA sand green profile treated with Primer 6O4.

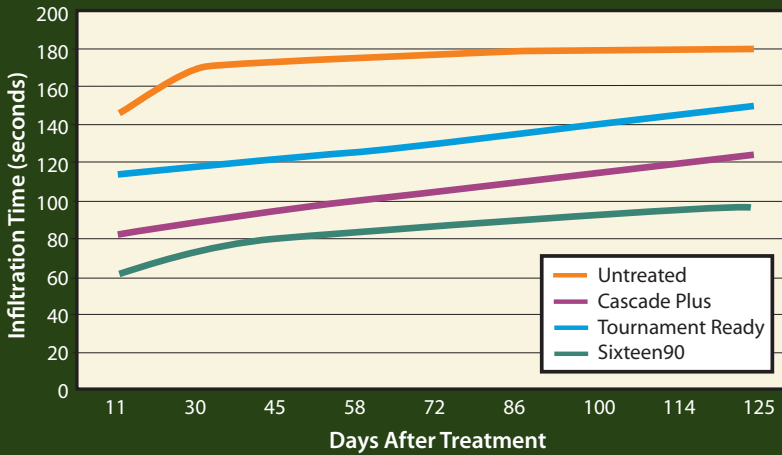


Apply 125 ml per 100 m² in 7.5 L of water (4 oz per 1000 sq. ft. in 2 gallons of water). Apply monthly, beginning at least one month prior to the onset of weather conditions that usually contribute to the development of soil hydrophobicity.

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

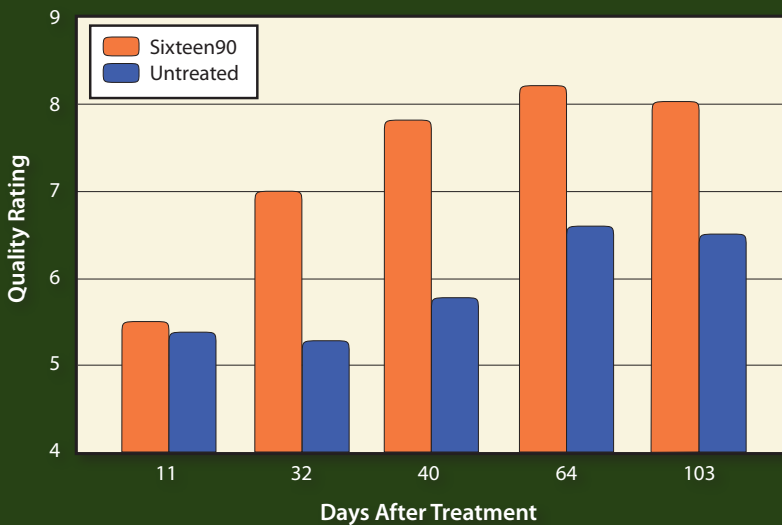
In It For The Long Haul

Sixteen90 gives you better season-long control than competing products. Research conducted in Garden City, Kansas (2001) shows that Sixteen90 provided the greatest reduction in water repellency, and performed the most consistently throughout the four-month test period.



Continued Quality

Not only does Sixteen90 give you long-term control over water repellency, but improvements in turf quality as well. This study conducted at the University of Florida - Ft. Lauderdale (2001) shows that Sixteen90 maintained optimal Bermudagrass quality over the duration of the study.



Single Application: Apply 16 oz per 1000 sq. ft. in 5 gallons of water (480 ml per 100 m² in 20 L of water).

Split Application: Apply 8 oz per 1000 sq. ft. in 2 gallons of water (240 ml per 100 m² in 8 L of water). Repeat in 7-10 days.

Start treatment before dry spot conditions develop. Apply a post-treatment syringe cycle to activate.

Aquatrols

Sixteen

90

Sixteen90™ is a long-term surfactant that gives you guaranteed safe protection against water repellency problems and promotes turf uniformity for 90 days. It outperforms the competition in providing more consistent management of water repellency, and will not “break” under climatic stress or drought conditions like traditional long-term products.

- Improves water movement and combats water repellency issues
- Safe for use on all turf varieties
- Economical to use on large turf areas like fairways and sports fields

BLAST

SPRAYABLE®

Blast Sprayable is a unique acid formulation combined with Synergy Technology. It safely dissolves carbonate build-up in the soil, rapidly opens soil pores for better infiltration and percolation of water, and frees up calcium, magnesium and other bound nutrients.

- 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



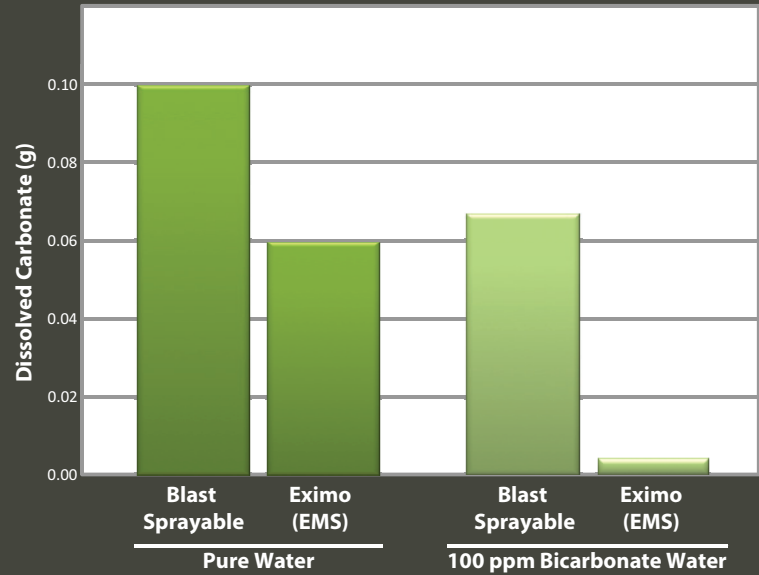
Aquatrols Patented Synergy Technology is an advanced soil surfactant which improves penetration, reduces run-off and improves product performance.





Blast Dissolves More Carbonate

Blast Sprayable dissolves more carbonate than other "safe" acids when irrigating with both pure and 100 ppm bicarbonate water.



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 logo features the brand name 'Aquatrols' in blue with a circular icon to its left. Below it, the word 'ADVANTAGE' is written in large, bold, green capital letters. To the right of 'ADVANTAGE' is a blue water drop icon containing a white plus sign. Underneath this graphic, the word 'seaweed' is written in a smaller, blue, lowercase font.

Aquatrols®
ADVANTAGE 
seaweed

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.



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