

Monthly Focus- CoRoN Liquids



The CoRoN Technology

CoRoN products are technologically superior liquid blends based on methylene urea. At the heart of the range is the base product, being the CoRoN 35:0:0 that provides 70% of controlled release nitrogen via methylene urea and 30% upfront nitrogen as urea. The base CoRoN product is then blended with other nutrients to create a portfolio of CoRoN products that differ in NPK analysis and CRN components to suit every situation and agronomic requirement. The CoRoN products are compatible across the range which enables you to further custom tune your application/s.

The products in the CoRoN range are;

- **CoRon Advance 35:0:0 – 70% CRN**
- **CoRon K 10:0:20 – 60% CRN**
- **CoRon Complete 18:0:12 +Fe – 50% CRN**
- **CoRon Sport 30:0:0 – 25% CRN**
- **CoRon Greens & Tees 10:0:10 +Fe – 50% CRN**
- **CoRon Quickstart 14:1.7:7 – 30% CRN**

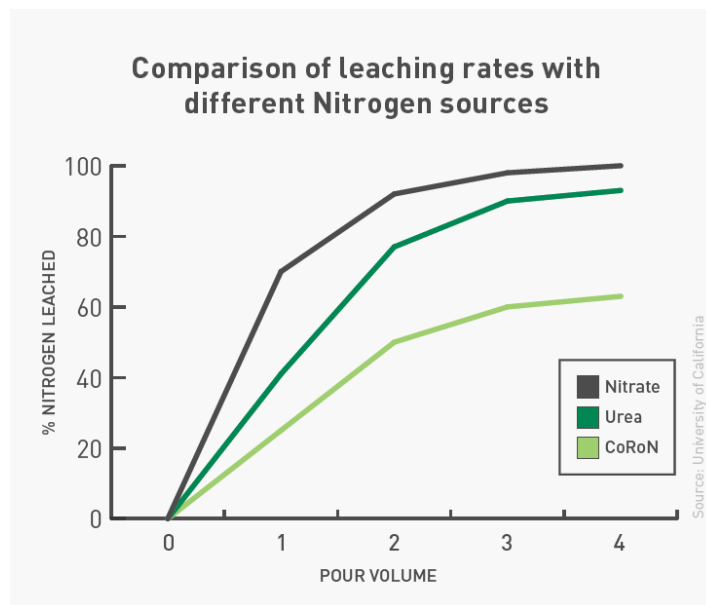
Except for Quickstart, the CoRoN range is compatible with the Manni Turf range of foliar trace elements, allowing you to tailor a foliar nutrition package to suit each and every situation with ease. CoRoN is a true foliar product that can be applied supplementary to granular fertiliser applications to enhance the nutrient levels in your turf. When used in regular 2-6 week programs CoRoN can provide complete nutrient delivery. The application rates are extremely flexible and can be tailored to suit any nutritional program.

Plant Growth Response

When CoRoN is applied there is an increase in root mass as well as clipping weight. The development of a healthy root system is vital during the establishment phase and for maximising turfgrass performance. CoRoN is quickly found within the turfgrass plant, which takes in the nitrogen and stores it until it is needed for physiological purposes such as root and shoot development. The result of this process is consistent growth patterns.

Improved Nitrogen Efficiency

Conventional fertilisers containing straight urea or ammonia-based nitrogen sources have a tendency to leach and volatilise quite rapidly. The unique formulation of CoRoN 35-0-0 results in reduced nitrogen losses. This is due to the products high plant availability and foliar uptake. When compared to other liquid sources of nitrogen, the leaching rate of nitrogen applied with CoRoN can be reduced by as much as 40%. The nitrogen in CoRoN is absorbed by the foliage of the turf. CoRoN can be detected in the leaf 4 hours after application and as much as 90% of the CoRoN can be found in the leaf after 24 hours. The efficient nitrogen uptake by the foliage of the turfgrass assists in reducing losses through volatilisation. When compared with a straight urea solution, volatilisation losses are almost halved.

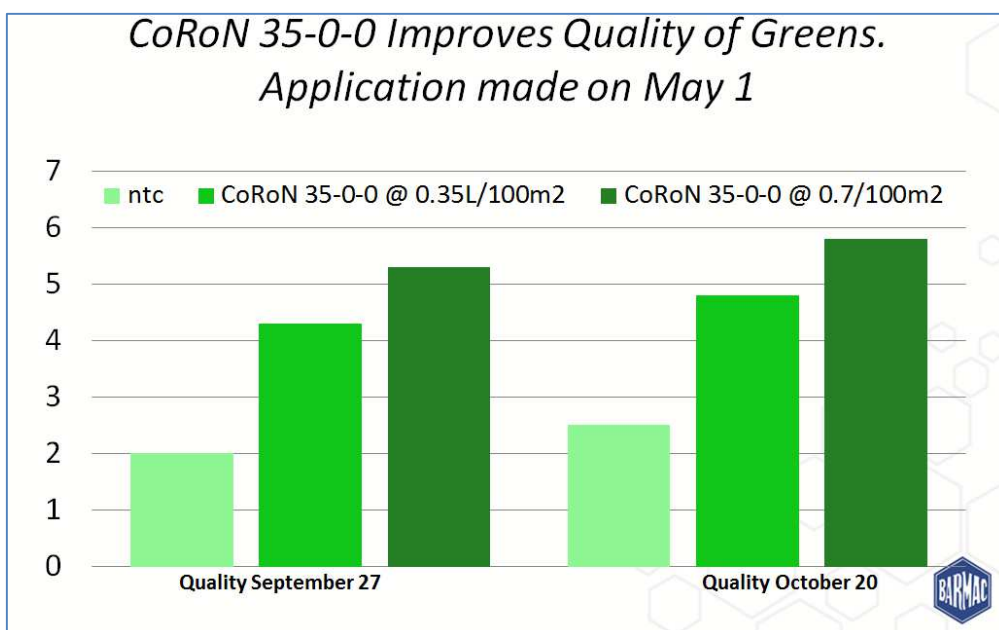
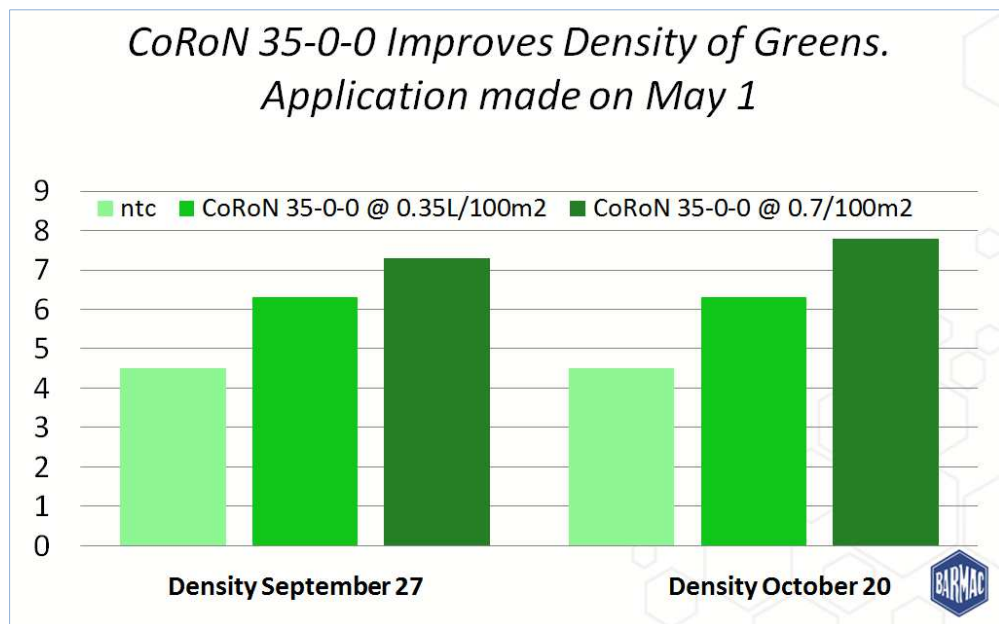
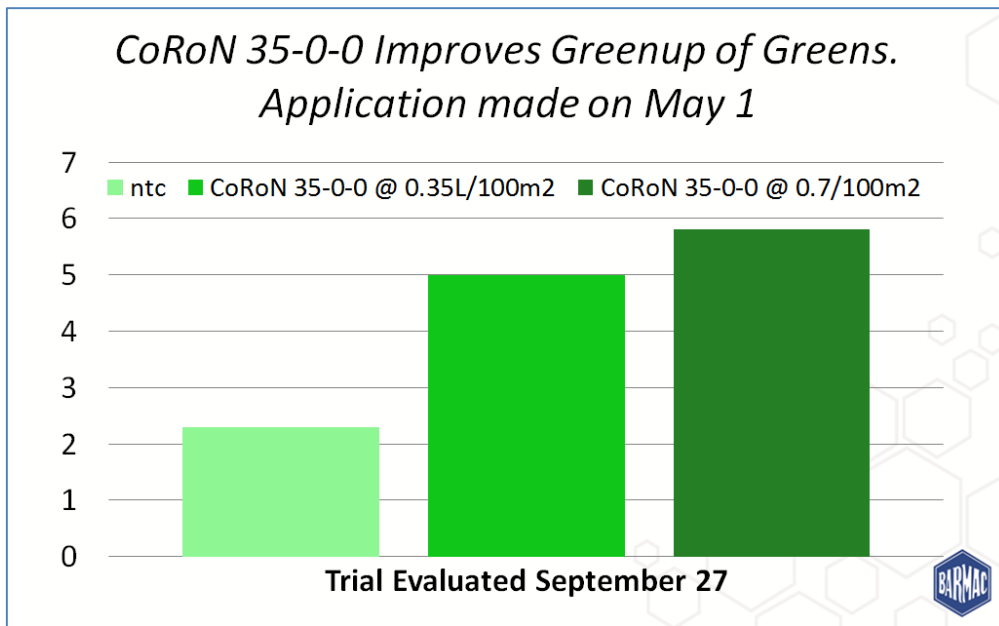


CoRoN – The Ideal Autumn Nitrogen Source Autumn

As most Turf Managers will know, the autumn months can be some of the most trying of the entire season. Ensuring that the turf surface enters winter in the best possible condition is of paramount importance in achieving a successful spring greenup a few months down the track. Research has shown that applications of CoRoN through the autumn months can greatly improve the density and colour of cool season greens observed in spring.

This occurs as the nitrogen applied through an application of CoRoN is sustainably released over a period of time as the plant requires it. As the weather cools and the plants' growth begins to slow, so too does the release of nitrogen. This eliminates the negative characteristics of excessive nitrogen applications which can be amplified through the winter months, particularly in parts of the country where frosts occur. In short, some well timed applications of CoRoN in autumn can result in healthier, denser and more vigorous growth in spring.

The following trial results clearly demonstrate the benefits associated with autumn applications of CoRoN. Application of CoRoN was made at the end of autumn, and greens were rated for green-up, density and overall quality in spring.



Seasonal Focus



Reinforce is a specifically formulated blend of Silica and Potassium to provide a strong hard wearing turf grass.

Analysis: 20% Silica(SiO₂), 8.3% Potassium as (KSI)

Silicon is one of the most abundant minerals found in soils, with only oxygen being more common. Unfortunately, most of the silica found in soils is present in insoluble forms like silicon dioxide or iron and aluminium silicates that are not available for plant uptake. Despite the abundance of Silicon in soil, high rainfall and low CEC can lead to plant deficiencies in turfgrass. The accumulation of silicon in epidermal cells and cell walls results in the development of more erect leaf blades and a thicker, stronger cuticle layer which limits non-stomatal transpiration and water loss.

Silicon is documented as reducing fungal attack by increasing cell wall thickness reducing the ability of fungal Hyphae to penetrate cells. It has also been noted that Silicon applications stimulate the plant's own defence mechanisms to deter pathogen attack. By strengthening the cuticle layer prior to the onset of drought, transpiration can be slowed down increasing drought tolerance.

Getting the most out of eFlow Reinforce:

- Apply to turfgrass foliage only
- Apply to increase green speed
- Apply to strengthen against pathogen attack
- Apply prior to dry periods to reduce transpiration and reduce drought stress
- Apply as part of an integrated pest management program
- Do not tank mix as Reinforce has a high pH and chemical reactions may occur



Kope is a high analysis liquid potassium (K) fertiliser for use when K is deficient. Kope also assists turfgrass in coping with high stress conditions.

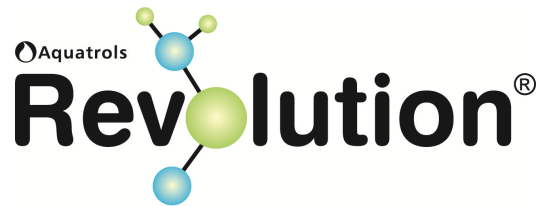
Analysis: 0-0-30% potassium as a Citrate Complex.

The potassium is present as a citrate complex giving a high degree of availability both through the leaf and in the soil. This citrate complex has a low salt index and hence is ideal for use on greens and fairways. Potassium is the second most important plant nutrient and strategic applications can be used to improve leaf colour, increase leaf durability and hardness during times of stress such as for cool season grasses during summer, warm season grasses in autumn and winter, during prolonged wet periods or before times of high play pressure. The fast response and convenience of a product like Kope offers turf professionals a highly flexible tool for management of Potassium.

The role of potassium in the plant is extensive and includes aiding in the actions of over 40 enzyme processes, reducing respiration, aiding photosynthesis and is essential in protein formulation. By aiding these processes turfgrass drought tolerance is increased as is plant durability. Potassium promotes the production of thick cell walls in the outer cells of the leaf, giving the turfgrass increased hardness and durability, enabling the turfgrass to better withstand high stress periods. Apply prior to stress periods for best results.

Getting the most out of eFlow Kope:

- Apply to the Leaf or as a soil drench
- Apply to amend K deficiencies
- Apply prior to heavy wear periods to harden the turfgrass
- Apply prior to periods of high environmental Stress Periods



As a turf professional, maintaining quality turf under a variety of stresses is your greatest challenge, and establishing control over the growing environment is key to your success. Revolution lets you gain control of rootzone conditions so that your turf can perform to its greatest potential. Revolution is a safe, reliable way to comprehensively maintain quality turf conditions throughout the season.

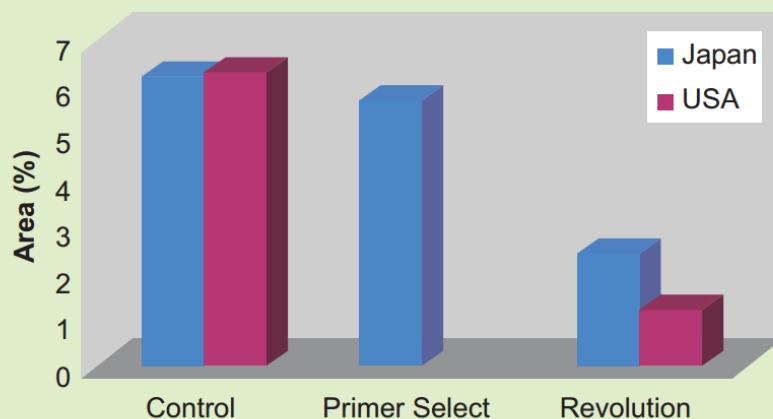
Revolution and Algae Reduction

Two factors that play a major role in algae development are soil moisture and thinned turf. Through the winter months when plant growth and evaporation are low, the upper soil profile tends to remain wet for long periods. The key to minimising the development of algae is to remove excess moisture from the turf surface and Revolution can assist in achieving this.

Revolution's patented unique methyl capped technology allows water to move in a thin continuous film through the soil, providing highly consistent moisture and air levels throughout the rootzone. University research and field trials have shown that regular use of Revolution will reduce soil moisture levels in the soil surface. Revolution has also been shown the result in a denser more uniform turf cover due to the even distribution of soil water below the surface.

Research conducted in the United States and Japan has demonstrated that Revolution can reduce the development of algae in sand based putting greens comprised of a Poa and Bentgrass blend. In both trials Revolution's more consistent distribution of water reduced surface moisture and helped improve turf density, lessening conditions favourable to algae development.

Revolution and Algae Control



Results from trials in both the US and Japan show that Revolution significantly reduced algae infestations as compared to the control.

GERMINATOR

SR Super Sports Blend

34% Harrier Perennial Ryegrass
33% SR4420 Perennial Ryegrass
33% SR4600 Perennial Ryegrass

SR Super Sports is a new premium seed blend developed by Globe from the best quality ryegrasses available. This blend represents cutting edge technology that includes increased wear tolerance, disease resistance and drought tolerance. It is quick to establish and has a dark green colour that can withstand low cutting. SR Super Sports represents a mixture of the newest Seed Research perennial ryegrass variety “Harrier” combined with the trusted performance of the Seed Research (SR branded) series ryegrasses. SR Super Sports has been developed by Globe specifically for providing sports fields with fast germination, excellent colour and low mowing. SR Super Sports exhibits enhanced resistance to ground feeding insects, as well as improved heat and drought tolerance. It also offers increased disease resistance to Grey Leaf Spot, Red Thread and Brown Patch.

In a comprehensive ryegrass trial conducted by Globe in the Autumn/Winter of 2013, the SR Super Sports Blend rated highly in all facets of the trial.

SR Super Sports is ideal for new establishment or over sowing quality sportsfields, particularly in early autumn. It can be custom blended with Bluegrass, Fescue, Kikuyu or improved Couch to create a seed mix suitable to every situation in both active and passive situations.

Key features of Germinator SR Super Sports Blend:

- Fast germination 3 -7 days
- Provides “fast” playing surface
- Excellent low mowing tolerance
- Improved disease resistance
- Tight growth habit
- Increased salt tolerance
- Fine leaf
- Dark colour

Tips for Sowing, establishment and maintenance:

Sowing Rates: For new plantings 3-6Kg/ 100m², Oversowing 2.5-5Kg/100m². Seeding rates will vary depending upon the outcome required. For best results consult your Globe client manager for assistance.

Nutrition: At Establishment apply 2SPEC Establish OR Andersons Turf Starter at 3kg / 100m².

Post Germination: To encourage the growth of young tillers apply CoRoN Advance at 600mL/100m². CoRoN provides a high level of Nitrogen with reduced burn potential for young seedlings.

Maintenance: SR Super Sports can be mowed as low as 7mm, with the ideal mowing height being 20-25mm for optimum results. Seasonal applications of 2 SPEC or Andersons Poly are recommended.





The Globe Growing Solutions Team wishes you and your family a safe and Happy Easter period.

Speak to your local Globe Client Manager for more information about our range or free call

1800 244 300

VISIT OUR WEBSITE

www.globegrowingsolutions.com.au