

NUTURF®
SPECIALISTS PROVIDING SOLUTIONS

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Liquid nutrition at its best

FoliMAX N-hancer-N 35-0-0

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FoliMAX N-hancer-N

FoliMAX N-hancer-N is a unique liquid nitrogen turf fertiliser product containing 35% nitrogen. 70% of the nitrogen in the fertiliser is in the form of a new generation SRN-IQ technology which maximises foliar uptake and nutrient utilisation processes within the plant. These features provide you with a reliable, robust and effective fertiliser product that will become the base of your turf liquid nutrition program.

The FoliMAX N-hancer-N Guaranteed Minimum Analysis – Wt/Vol;

Total Nitrogen (N) - 35%

Nitrogen (N) as SRN-IQ Technology - 25%

Nitrogen (N) as Urea - 10%.

Key benefits of FoliMAX N-hancer-N

- Turf specific fertiliser, researched and developed purely for turf purposes.
- Contains SRN-IQ technology for improved plant utilisation and prolonged plant growth.
- The SRN-IQ technology provides rapid delivery of nitrogen into the plant.
- Non-corrosive nitrogen source, less damaging to spray equipment.
- Reduced nitrogen losses through volatilisation and leaching.
- Excellent tank mix versatility. Highly compatible with many other fertilisers and chemicals.
- Very low risk of phytotoxicity due to its low salt index, even on immature turf.
- Excellent flexibility in application rates, allowing you to better optimise your nutrition program.



The SRN-IQ Technology explained

The SRN-IQ Nitrogen technology is a true liquid, clear urea-formaldehyde solution which has an oily, resinous quality. The SRN-IQ Nitrogen technology has a linear molecular structure, which allows it to be more compact than other slow release nitrogen technologies, and therefore provides it with significantly improved foliar uptake capabilities.

The SRN-IQ's Linear Molecular Structure $H_2N\text{-}CH_2(UF)_2CH_2NH_2$

1. RAPID PLANT UPTAKE:

The SRN-IQ Technology does not hydrolyse on the plant tissue, but is readily received across the cell membrane, where it is translocated for storage, metabolism, and use. As a result, the majority of the SRN-IQ Nitrogen can be found inside the plant within 6-8 hours of application, and essentially all of it is absorbed in 24-48 hours. The portion of it which is in its simplest nitrogen state (urea) is used by the plant first. The majority of SRN-IQ Nitrogen remains in the more complex soluble methylene and polymethylene urea forms until the plant can break them out into more usable units of nutrition. This provides a slow release of nitrogen within the internal mechanisms of the plant itself.

2. SLOW RELEASE NITROGEN:

Numerous past research trials have indicated that 0.5kg (500g) of nitrogen from straight urea will feed 100m² of turf for 3-4 weeks (depending upon turf type and environmental conditions). The same amount of nitrogen from SRN-IQ will keep the photosynthesis mechanism fuelled for 6-8 weeks, thus establishing that the SRN-IQ Nitrogen works on a slow release or sustained availability system.

3. ENHANCED SOIL ACTIVITY:

As SRN-IQ Nitrogen is dispersed in the soil, a "wicking" action draws the free water away from the resinous nitrogen molecules, resulting in the formation of more viscous nitrogen solution. This loss of water causes the SRN-IQ Nitrogen to gel and polymerise. The simplest water soluble methylene ureas combine to form longer chain molecules which are substantially less soluble. As this occurs, warm temperatures, moisture availability, and especially microbial action all become necessary to convert the less soluble nitrogen forms into usable nutrition units in the root zone for the plant to uptake. The soil also provides a medium whose pH is generally much lower than that of the SRN-IQ Nitorgen. SRN-IQ's clear nature is based upon the maintenance of an alkaline pH. As the more acidic (or less alkaline) soil interfaces with the more alkaline SRN-IQ's product, a chemical reaction takes place, whereby lower solubility ureaforms are created. This occurrence also converts a significant percentage of the SRN-IQ Nitrogen into a more slowly available N source. Whether by physical or chemical action, SRN-IQ Nitrogen in the soil is transformed into a substantial base of slow release ureaforms. Some of the SRN-IQ Nitrogen is in the form of quickly available urea, which becomes ammonium nitrogen by soil enzymatic action. Other nitrogen molecules in the SRN-IQ matrix resemble amino acid precursors. These latter two types of nitrogen bridge the gap between the plants immediate need for nutrition and the availability of the slower releasing ureaforms, thereby providing a complete and sustained system of feeding.



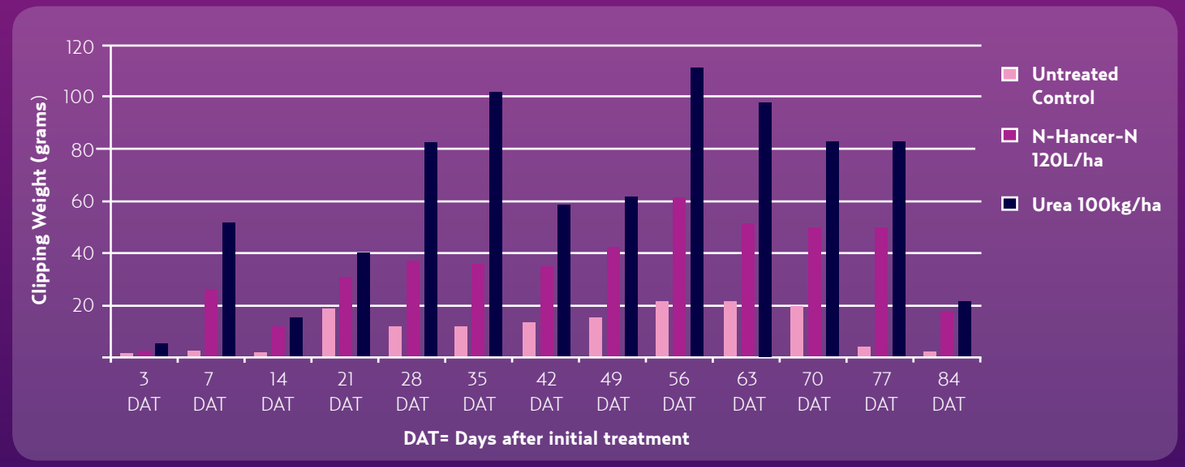
FLEXIBILITY IN APPLICATION RATES WITH FoliMAX N-hancer-N

Apply as a spray application during the growing season on all turf grasses and most landscape plants. Dilute with water, using the desired nitrogen rate per 100m² according to the application rate chart. Apply in sufficient water to achieve adequate plant coverage. Use a water volume of 5-15L per 100m², depending on the application rate. Avoid mowing for 24 hours following an application.

APPLICATION RATE CHART		
N Kg/100m²	mL/100m²	L/ha
0.125	350	35
0.15	400	40
0.25	700	70
0.3	800	80
0.35	1000	100
0.42	1200	120

FIELD PERFORMANCE WITH FoliMAX N-hancer-N

CLIPPING WEIGHT RESEARCH TRIAL ON BENTGRASS. COMPARISON OF UREA v N-hancer-N.



Initial fertiliser application: 22nd October, 2nd application: 21 DAT, 3rd application: 45 DAT

Summary of results: FoliMAX N-hancer-N provided the most consistent growth (no surges) and nitrogen release over the period of the field trial. The trial also confirmed the slow release characteristics that N-hancer-N provides over a period of six weeks.

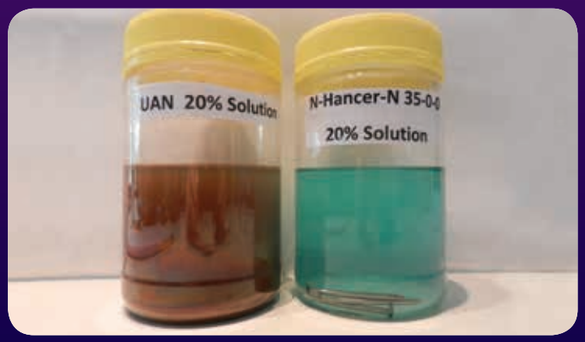
EXCELLENT TANK MIX FLEXIBILITY WITH FoliMAX N-hancer-N

FoliMAX N-hancer-N's highly stable formulation allows it to be very tank mix flexible with many soluble fertilisers, chelated trace elements and pesticides (particularly fungicides and insecticides) commonly used in the turf and horticultural industries. For more information on tank mix flexibility of FoliMAX N-hancer-N ask your Nuturf Territory Manager for our FoliMAX tank mixing fact sheet.

A jar test is a good field practice for evaluating compatibility of multiple chemical mixtures and it is recommended that this is undertaken prior to application.

FoliMAX N-hancer-N NON CORROSIVE FORMULATION CHARACTERISTICS

When compared to urea based soluble or liquid products, FoliMAX N-hancer-N featuring SRN-IQ technology is a non-corrosive formulation. As a result, N-hancer-N's impact on spray equipment is minimal and a feature that can't be ignored. The photo right is a demonstration of N-hancer-N versus a urea based liquid fertiliser when compared for corrosive impact. Nails have been added to both products one week before the photo was taken.



The superior non-corrosive characteristics of FoliMAX N-hancer-N are nearly demonstrated in the photo. The corrosive nature of the comparative liquid nitrogen formulation has resulted in major corrosion of the submerged nail. With repeated usage, urea based products will impact upon metal parts of spray equipment much more significantly.