



TERRA LIFT

PERFORMANCE FERTILISERS



“

I have been using the Terralift range of products for 15 years now with TX10 being at the heart of my nutrition program. The products give me peace of mind that my greens will perform year round, with steady consistent growth and great sward density, especially at renovation times"

Andrew Laing, Course Manager, Gaudet Luce Golf Club

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TERRA LIFT

PERFORMANCE FERTILISERS

Made of more.

OUR COMPANY

The recognition Terralift has today as the sports turf industry 'benchmark' for organically derived nutrition and root-zone supports, began with a decision over **THREE DECADES** ago to **broaden turf nutrition** and its performance beyond the standard NPK and trace elements approach.

Terralift is an international company with production facilities in the Republic of Ireland, Australia and China.

Terralift has **invested in the research** and development of its own proprietary aerobic composting, thermophilic digestion, organic fusion granulation and liquid extraction systems for the production of a **nutrient rich plant performance** range of products.

Terralift products benefit from the pasteurisation and re-generation of food residue, seaweeds, humates and carbohydrates to enhance root-zone nutrient preservation, soil chemistry and plant metabolic activity, for **healthy, LOW MAINTENANCE**, disease resistant, **sustainable** performance playing surfaces.



RELEVANT | Conforms to the aims of limiting applied chemical fertiliser volumes, improving natural disease suppression and building sport turf's capability to withstand changing climatic conditions.

PROGRESSIVE | Ahead of the curve in developing formulations to match the need for maintaining a year round quality playing surface with minimal surface disruption.

REMARKABLE | In synergy with today's demand for 'performance from low environmental impact' products.

TERRALIFT WERE THE **FIRST** TO:

- » Develop a 3 stage aerobic composting process to maximise the microbial breakdown of combined animal, vegetable and marine constituents
- » Manufacture a homogenous fertiliser granule incorporating a 64% organic complex
- » Incorporate 'digested' natural plant growth regulators, humic and amino acids in formulations
- » Add a wetting agent to a fertiliser and now to follow this with the addition of Mycorrhiza fungi
- » Move to 100% urban food residue compost as a primary support to sports turf environmental aims
- » Formulate a liquid 'aerator' with an accompanying food supply for indigenous aerobic Microflora
- » Provide Microflora formulations with an accompanying food system to improve their survival potential.



PERFORMANCE AND VALUE

Terralift fertiliser programs are a safe, reliable path to **consistent high quality** playing surfaces. By building soil fertility and healthier grass, Terralift programs achieve **superior results** that will cost no more and allow for reduced use of wetting agents, fungicides and irrigation water for a **lower overall cost**.

THE CORE COMPONENTS TO ALL TERRALIFT PRODUCTS ARE:

Amino acids, Enzymes

- » Promote balanced nutrient uptake to limit soft growth and nutrient deficiency
- » Increase plant cell metabolic activity to promote slow, even, hardy growth

Humic & Fulvic acids

- » Boost root zone CEC to limit nutrient drainage from the root- zone
- » Release soil pH held nutrients for chelation by Amino Acids
- » Bind with water molecules to reduce loss to evaporation in warmer periods
- » Disable pathogens to restrict their invasion of host plants
- » Provide a favoured carbon food source for Mycorrhiza and other beneficial microbes
- » Is an excellent foliar transporter for nutrients including trace elements

Plant Growth Regulators (PGRs)

- » Trigger rooting and boost Mycorrhiza web – root mass efficiency
- » Maintain plant normality in times of N shortages – limit erratic rise and fall growth
- » Offset growth spurts – slower, denser growth
- » Promote uniformity in cell shape and wall density – rapid mower cut/disease repair

PRODUCT COMPETENCE

Terralift fertilisers are the **most researched** and **field proven** of their type in the market. Over 30 years of use in a variety of challenging climates, soil types and play intensity around the world.



CATION EXCHANGE CAPACITY (CEC)

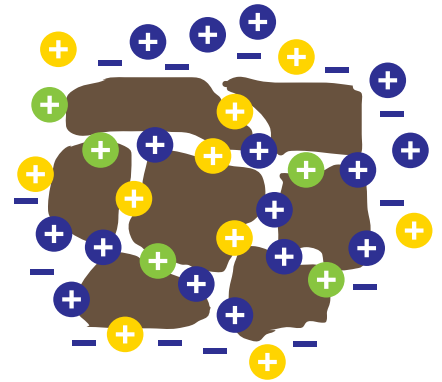
How Terralift granular fertilisers increase root zone CEC.

CEC comes from 2 sources:

CLAY - in effect colloidal clay (microscopic particles) and

STABLE HUMUS - from the microbial breakdown of organic matter e.g. mature compost and humate soils (humic/fulvic acids)

Clay and organic matter have negative charges that can hold and release positively charged nutrients (the nutrient cations are adsorbed onto the surface of the clay or humus). That static charge keeps the nutrients from being washed away and holds them so they are available to plant roots and soil micro-organisms. The roots and micro-organisms get these nutrients by exchanging them for free hydrogen ions (water solution). The free hydrogen H^+ fills the (-) site and allows the cation nutrient to be absorbed by the root or micro-organism.



Stable humus in Terralift fertilisers increases Cation Exchange Capacity

Terralift granules add to sand based CEC root zones on the basis of their **stable humus and calcium content**. Once the granules hit the ground they will encourage microbial life that will in turn create more stable humus from both the granule content and the 'sloughed off' roots and under leaf. This will in turn be greatly assisted by the presence of calcium (free-calciums are in all Terralift granulars) which 'opens' the soil to allow better air/moisture movement for more active microbial break down of the OM to create humus, adding further to and extending the period of CEC.

LOOK FOR THESE GRAPHS IN THE GRANULAR FERTILISER SECTION OF THIS CATALOGUE

Potential CEC gain	257%
Humic Acids	4.2%
Fulvic Acids	2.0%
Amino/PGRs/Enzymes	0.4%

The potential gain in CEC is calculated for the top 5cm of a sandy root-zone with a CEC of 3



TERRALIFT TECHNOLOGIES

The **technologies developed by Terralift** have evolved through emphasis to **optimise the soil chemistry** together with the plant's efficiency in its

FROC **FOOD RESIDUE ORGANIC COMPLEX TECHNOLOGY**

Involves the gathering of a selection of urban food residues, carrying all the constituents needed to maximise the production of amino acids, humate acids and plant growth regulators in a controlled composting process that fully bio-converts the organic matter with the minimum of inert fibre inclusion. FROC provides extended 'in soil' residency for plant available minerals, microbial foods to promote conversion of plant waste to useable nutrition and plant uptake supports to maximise plant health.

The resulting complex is food grade quality, pasteurised and steam sterilised to exceed minimum EU standards. FROC has been proven to provide:

- » Extended maintenance quantities of Phosphate and Potassium
- » A stable humus and Ca lift to existing soil CEC to limit loss of applied nutrition
- » Essential levels of trace elements (Fe, Cu, Zn, Mn, Mo, B) along with ammoniac N
- » Complex natural acids (amino/humic/fulvic/salicylic) and phytohormones – to combat stress and disease attack.

ATD **ADVANCED THERMOPHILIC DIGESTION TECHNOLOGY**

The most advanced liquid bio-conversion system operating today. ATD uses highly evolved microbes to completely break down organic matter into plant available minerals and nutrients along with a concentration of enzymes, plant growth regulators and nutrient support acids – a highly effective liquid organic complex.

Both the FROC and ATD technologies provide the core components in all Terralift formulae to 'organo-wrap' added chemical NPK materials, allowing for a lower analysis, which produces quality turf with the key attributes of resilience, sward density and sustained performance.



asis on fully **exploiting natural materials** and their capacity
s uptake and use of applied nutrition.

NORF NITROGEN + ORGANIC FUSION GRANULATION TECHNOLOGY

The Terralift organic fusion process blends and successfully binds three nitrogen forms (nitrate, ammoniac and ureic) with organic NPK and trace elements plus added minerals for a controlled release of up to 10 weeks while the nutrient soil preservation properties of the organic complex limit leach or evaporation loss regardless of rainfall or dry conditions.

NORF granules come as stable, homogenous, fine particles that spread evenly and disintegrate with moisture, such that the nitrate portion together with K and Mg ensure early colour without soft growth.

MORC METHYLENE UREA (MU) + ORGANIC COMPLEX TECHNOLOGY

MU is a slow release chain of urea components (NH_4 and NO_3) linked to carbon and hydrogen. Research field trials have shown the MU chain to work extremely well with our FROC and ATD organic complex. In MORC granules we employ a 16 week MU for a proven 14 week granule, while our liquid forms contain an 8 week MU chain for a proven 6 week liquid.

The MU nitrate and ammoniac N are released by microbial breakdown of their carbon link. Therefore the combining of our organic complex with MU provides the best possible potential for the indigenous microbe population being ready to facilitate this process as needed by the grass.

MU has the advantage that it is not affected by moisture, pH variance, and high or low temperatures, adding to the certainty of the optimum release pattern. Our MU is a specific fine particle production known for its stability and desirable early and long release characteristics.





SOIL TESTING SERVICE

Terralift offers **valuable practical advice and technical support** to the sports turf industry via our technical officers and comprehensive soil testing service. This service provides an easy to understand report that enables grass managers to **make informed decisions** on the factors limiting the performance of their grass.

BASIC SOIL TEST

The basic soil test includes 3 soil samples and provides 6 readings that will identify nutrient deficiencies, highlight barriers to the air-water balance and key nutrient availability.

The analysis will look at these important areas:

6 READINGS:

- » Organic Matter
- » pH
- » Phosphorous
- » Potassium
- » Magnesium
- » Calcium

This report recommends the optimum application period, quantity and form of nutrition to advantage competent turf management.



PREMIUM SOIL TEST

The premium service is the most comprehensive soil test for sports turf available in Europe. This soil test goes beyond nutrient deficiencies to identify soil development needs, microbial status and turf health.

By building a profile of the site and the inter relationships within the results we can identify the factors limiting the performance of your grass.

The analysis will look at these important areas:

29 READINGS:

- » Base saturation and CEC
- » Aeration pore space
- » Water percolation ability
- » Salt levels
- » Disease suppression
- » Aerobic microbial activity
- » Compaction ability
- » Nutrient retention and uptake
- » Colour hold
- » Wear durability
- » Leaf strength

This report provides in-depth results interpretation, cultural recommendations and a proven bespoke root-zone development and plant nutrient programme.



TX RANGE

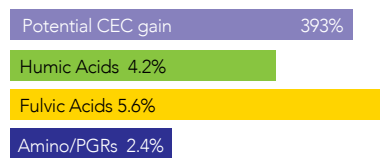


10 weeks release

The TX fertiliser range contains a complex combination of **organic materials, high in humic fractions and microflora food sources**. The free-calcium and enzymes along with plant growth regulators give a slow even uptake of nutrients, guarding against soft lush top growth and encouraging deep healthy roots whilst **minimising disease outbreaks**. Low risk of scorching and reduced nutrient loss through leaching.

TX10 + MYCORRHIZA

5-2-8 with wetting agent



Applied regularly through the year, TX10 can stand alone or complement a main fertiliser release pattern for:

- » Sward density with less top growth
- » Greater wear tolerance under intensive play
- » Improved CEC capacity of sand top-dressed sites
- » Mycorrhiza enhanced root hair soil web
- » Polymer web wetting agent for faster granule breakdown

Application options

1. Spring and Autumn coring
2. Regularly with liquid plant supports
3. Light overlay to granular programme
4. Spring into Winter fertiliser



- ☞ 30g/m² (20-40g/m² option as desired)
- ☐ 20kg, granule size 1.2mm (avg)
- ☼ All seasons

J	F	M	A	M	J
J	A	S	O	N	D

MYCORRHIZA IN TX10 AND TX HUMUS

Golf greens and sand based sports grounds all suffer from a sparse mycorrhizal population that is easily damaged by compaction, excess water, fungicides and herbicides.

Rebuilding the mycorrhizal stock as part of a TX10 or TX Humus application is the ideal solution to maintaining their presence year round.

MYCORRHIZA ARE KNOWN TO ...

- » Provide a Nematode deterrent – through excreting an inhibiting fluid into the rhizosphere
- » Add a 100+ fold increase in the root absorption capacity – through its extended nutrient capture filament network
- » Promote better pathogenic fungi defences – through increased nutrient uptake that limits food for other fungi
- » Maintain chlorophyll (colour) in the leaf – through release of stored nutrients to the plant when under stress.

TX HUMUS + MYCORRHIZA

TX Humus combines our Food Residue Organic Complex (FROC) with microbially digested humic acid to create a **total carbon and humic support** for natural grass support systems, suitable for soil, loam and sand conditions.

Use TX Humus to:



- » Boost passive fertility
- » Improve CEC
- » Replenish tired soils
- » Mycorrhiza enhanced root hair soil web
- » 6-12 weeks release

Application options

1. Soil improver: Apply 30g/m² every 8-12 weeks.
2. Root zone support for mineral/liquid programs: Apply 20g/m² every 4-6 weeks.
3. New rootzone constructions: Ameliorate 50g/m² into top 1-2cms.
4. At renovation times: 30-40g/m². Brush into aeration holes before top dressing.



- ☞ 30g-40g/m²
- ☞ 20kg, granule size 1.2mm (avg)
- ☞ All Year

J	F	M	A	M	J
J	A	S	O	N	D



FINETURF FERTILISERS

TX 5-1-16_{+3.4Fe}

Potential CEC gain 246%

- » Built in CEC for potash longevity
- » Prolongs colour hold
- » Speciality dressing for low CEC root-zones

Humic Acids 3.2%

Fulvic Acids 3.8%

Amino/PGRs 1.3%

☞ 30g/m²

☐ 20kg, granule size 1.2mm (avg)

☀ Spring and Autumn

J	F	M	A	M	J
J	A	S	O	N	D



TX 9-1-10

Potential CEC gain 270%

- » Universal Spring into Summer fertiliser option
- » Maintains sward density and colour
- » Supports potash needs into Autumn

Humic Acids 3.4%

Fulvic Acids 4.1%

Amino/PGRs 1.3%

☞ 30g/m²

☐ 20kg, granule size 1.2mm (avg)

☀ Spring to Autumn

J	F	M	A	M	J
J	A	S	O	N	D



TX 11-1-5

Potential CEC gain 270%

- » Pushes growth in cold conditions
- » Drives Spring and Summer growth
- » Well suited to acidic soil conditions

Humic Acids 3.4%

Fulvic Acids 4.1%

Amino/PGRs 1.3%

☞ 30g/m²

☐ 20kg, granule size 1.2mm (avg)

☀ Spring to early Autumn

J	F	M	A	M	J
J	A	S	O	N	D



One of the main goals I have for my greens is to provide members with good grass coverage and quick recovery from renovation work. TX10 provides members with this every time. Along with steady and consistent growth, it is a must have in our greens program "

John Edge, Course Manager, Leyland Golf Club





FINETURF FERTILISERS



T-PLEX RANGE



14 weeks release

The T-Plex range of fineturf granulars combine an **organic complex with methylene urea technology** to provide extended release up to 14 weeks. Whilst delivering all the essential nutrients for healthy turf, the additional microbial support ensures the building blocks are in place for **soil friability, water percolation and CEC** within the root zone.

3-0-6

1:2 LOW NK + MU

Potential CEC gain 463%

Organic with Methylene Urea (MU), 2% seaweed, 15% CaO, 3% MgO

- » Low N regime nutrition
- » Safe Winter fertiliser for colour
- » Builds soil reserves for Spring

Humic Acids 3.5%

Fulvic Acids 7.8%

Amino/PGRs 1.5%

⌘ 30g/m²

☐ 20kg, granule size 1.2mm (avg)

☀️ Autumn to Winter

J	F	M	A	M	J
J	A	S	O	N	D



7-0-11

NK + MU

Potential CEC gain 218%

Organic with Methylene Urea (MU), 3% seaweed, 7% CaO, 2% MgO

- » Multi-purpose Spring to Autumn fertiliser
- » Zero phosphate
- » Maintains soil reserves during growing season
- » Stable growth response

Humic Acids 2.8%

Fulvic Acids 4.6%

Amino/PGRs 1%

⌘ 20g/m² (30g/m² for weak swards)

☐ 20kg, granule size 1.2mm (avg)

☀️ Spring to Autumn

J	F	M	A	M	J
J	A	S	O	N	D



11-0-10

1:1 NK + MU

Potential CEC gain 140%

Organic with Methylene Urea (MU), 7% CaO, 1% MgO

- » Strong colour presentation
- » Ideal controlled release for sand conditions
- » Quickens growth into Summer

Humic Acids 2.4%

Fulvic Acids 4.6%

Amino/PGRs 1.1%

⌘ 30g/m² (35-40g/m² on porous soil)

☐ 20kg, granule size 1.2mm (avg)

☀️ Mid-Spring to early Autumn

J	F	M	A	M	J
J	A	S	O	N	D





Soilfix CaMg with vital trace elements has become an integral part of our nutritional programme offering great longevity, natural stress recovery, improved disease resistance, robust plant health and superb colour quality and definition. A product I am glad to have at my disposal"

Keith Porter, Head Groundsman, Leigh Sports Village

SOILFIX RANGE

Soilfix lifts the root zone's ability to sustain turf performance by **addressing key mineral shortfalls** and providing organic trace elements. A valuable addition to all fertiliser programmes.

- » Covers Ca and Mg demand without soil surface pH impact
- » Builds CEC to support other applied NPK
- » Provides needed Mn, B and minor trace elements



CaMg

- » Boost Ca and Mg in the base saturation in mid pH ranges (5.4-7.5)
- 28% CaO, 12% MgO, 0.3% Mn

Mg+

- » Boost Mg in soils at any pH (5.0-8.0).
 - » Suitable on sites where Mg is clearly deficient and/or root development is poor.
- 17% CaO, 21 % MgO, 0.3% Mn

LOW pH Ca

- » Contains mostly water insoluble Ca that will slowly dissolve into free-calcium in acidic soils (<6.2 pH), also buffers low pH.
 - » Best suited to low pH root zones or where acidic irrigation water is used.
- 34% CaO, 8% MgO, 0.3% Mn

HIGH pH Ca

- » Contains Ca soluble in high pH soils (7.2+), also contains Mg, Mn and B.
 - » Ideal for high pH calcareous root zones and where soil calcium struggles to exist in freely available amounts to best support plant health.
- 26% CaO, 8% MgO, 0.3% Mn

All Soilfix granules may be applied at 20g/m² up to 3 times per season. Soilfix granules with their low leach structure and ideal calcium make-up outperform all calcium liquids, as Ca is slow to translocate to the root-zone and is mostly mown off before imparting benefit. Consult your Terralift representative to determine the right Soilfix product for your situation.

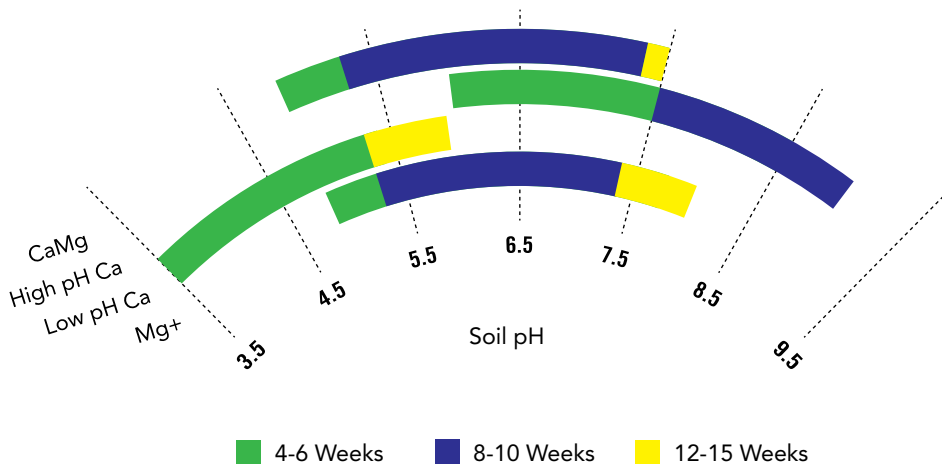
☞ 20g/m²

☐ 20kg, granule size 1.2mm (avg)

☀ Spring and Autumn

J	F	M	A	M	J
J	A	S	O	N	D

Soilfix longevity and suitability in specific root zone pH ranges



LIQUID FERTILISERS



TCL NUTRIENT LIQUIDS

Terralift Complexed Liquids are produced by the **most advanced liquid bio-conversion system** currently available on the market.

- » Improve plant vigour with hardy growth
- » Enhance plant metabolic activity
- » Provide plant available minerals, enzymes and nutrients
- » Promote colour without flooding the grass plant with ammonium and iron sulphates

TCL ADVANCE 18-2-2

Swift plant response and colour hold

- » Ideal supplement to a low soil N fertiliser programme
- » The quality components enable lower volume application for an equivalent NPK response
- » Organic acid content ensures better use of available daylight for colour enhancement
- » Microbial growth regulators develop slower more even growth

☞ Spring - Summer 20-40L/Ha

Autumn - 20L/Ha or as part of a Terralift tank mix

☞ 1:5+L of water

☞ 10L

☞ Spring to Autumn

J	F	M	A	M	J
J	A	S	O	N	D



TCL STRENGTH 0-0-15

Strengthen grass and denser cells

- » Chlorine-free bonded K source with rapid absorption efficiencies that will harden grass by filling cells and increasing cell wall density
- » Contains chelating amino acids, plant metabolic prompters and microbial growth regulators
- » Formulation ensures applied Potassium locates in the leaf tissue and grass head
- » Reduces water uptake, thereby forcing soil available N to develop roots, not soft top growth.

☞ Spring and Autumn 20L/Ha

Can be applied at 10-14 day intervals to increase plant vigour during cold Springs

☞ 1:5+L of water

☞ 10L

☞ Spring to Autumn

J	F	M	A	M	J
J	A	S	O	N	D



BIOSTIMULANTS

OUR RANGE OF BIOSTIMULANTS

Terralift produces a **range of biostimulants** to build soil fertility, healthy grass, soil porosity and more consistent **high quality playing surfaces**.

The foundation of Terralift biostimulants is the liquid organic complex, abundant in enzymes, plant growth regulators and organic acids produced via Aerobic Thermophylic Digestion (**ATD**) **technology** (see page 8 for further information).



BRU RANGE

A unique range of **bio active turf surface management** products based on botanical ferments and plant extracts to both support root zone and plant performance, whilst also complementing the management of pests and disease.



Prevent with PRE

Strengthen the rootzone ahead of disease pressure

Activates induced systemic resistance (ISR) in turf through a mix of plant support bacteria and a fermented pathogen inhibitor. Apply at 21 day intervals leading into and throughout expected disease periods to:

- » Prepare the site defences ahead of a disease period
- » Strengthen positive root-zone microbial populations
- » Limit the size and intensity of disease outbreaks

☞ Standard rate 10L/Ha

Intensive rate 20L/Ha

☞ 1:20-40L of water

☐ 10L

☼ Spring to Autumn

J	F	M	A	M	J
J	A	S	O	N	D




Stun with PLUS

Disrupt fungal pathogen activity with the acidity of Bru-Plus

A surface acidifier to shock active fungal disease spores on the surface.

- » Kind on turf surfaces whilst strengthening plant rejuvenation
- » Ideal follow on to Bru-Pre in late Autumn
- » Multi applications are safe on your rootzone
- » Oligosacchorides to improve turf response to stress

☞ 30-40L/Ha

☞ 1:12L of water

☐ 10L

☼ All seasons

J	F	M	A	M	J
J	A	S	O	N	D




Inhibit with POST

Interrupt fungal disease spread into the turf sward

Contains a botanical extract in a plant ferment to inhibit fungal disease development and interrupt its spread into the turf sward.

- » Botanical ferment supplies metabolites and enzymes to re-boot turf health
- » Contains bio-stimulants to promote turf quality
- » Use after or instead of Bru-Plus when needed
- » Safe to vary rate depending on historic severity

☞ 15-20L/Ha

☞ 1:15+L of water

☐ 10L

☼ Spring to Autumn

J	F	M	A	M	J
J	A	S	O	N	D



BIOSTIMULANTS

BRU-HOLD

Contains **botanical extracts, organic carbon fractions and biostimulants** which may inhibit leatherjacket and chafer grub feeding.

- » Prolong CEC and nutrient uptake for extended surface performance
- » Contains a plant extract to develop sustainable roots
- » Enhance new white root hair development
- » Apply Bru-Plus @ 10L/Ha to improve results

☞ Standard rate 10L/Ha. Intensive rate 15L/Ha. Repeat every 7 to 14 days during active periods.

☞ 1:25L of water

☞ 10L

☞ Spring and Autumn



J	F	M	A	M	J
J	A	S	O	N	D

BRU-CLEAR

Allows casting worms to continue working for the betterment of the root zone and may limit their **negative visual impact** on playing surfaces.

Proprietary hydrocarbon ferments create:

- » Early and late season soil temperature lift
- » Trigger rooting
- » Drive early season photosynthesis
- » Quadrop treated water can help reduce the impact of worm casting
- » Apply Bru-Plus @ 10L/Ha to improve results

☞ Standard rate 30L/Ha. Intensive rate 40L/Ha. If conditions indicate repeat application 7-21 days later.

☞ 1:25L of water

☞ 10L

☞ Spring to Autumn



J	F	M	A	M	J
J	A	S	O	N	D

BRU-FIX

Formulated to **clean-up biologically harmful chemical residue**

- » Removes the likelihood of toxic residue build-up from chemical spraying
- » Rebuilds the microbial soil count following fungicide/herbicide/insecticide applications or oil spillage.

Bru-fix application

1. Following fungicide, herbicide or insecticide applications – restores optimum growing conditions. Apply once.
2. Use as an environmental tool to clear annual chemical residue build-up. Apply twice, 21 days apart in late Summer
3. Following an oil spill – Apply to restore soil health. Apply at 10L/Ha (1 box), repeat as necessary. Apply anytime from Spring to Autumn

☞ 10L/Ha

☞ 1:25+L of water

☞ 10L

☞ Spring to Autumn



J	F	M	A	M	J
J	A	S	O	N	D

“

I started using Bru-Pre in my first season as Course Manager, it's safe to say it cemented its place in my program as it's drastically help reduce our fungicide applications. We also noticed a reduction in the intensity of any disease breakouts we experienced”

Jamie Whittle, Course Manager, Southport & Ainsdale Golf Club

TURF GRASS CHALLENGES

This guide offers *solutions to a number of common root zone problems* playing surfaces

BLACKLAYER

(Spring to Autumn) Fine core down to the layer (not through) during the growing season and follow programme. To develop the new growth, follow with TCL Advance 18-2-2 (40L/Ha)



Week 1	Rocastem (5L/Ha)
Week 2	Rocastem (5L/Ha)
Week 3	Rocastem (10L/Ha)
Week 4	Rocastem (10L/Ha)
Week 5	Rocastem (10L/Ha) and Plantmax (20L/Ha)

SURFACE PUDDLING

Apply Rocastem at full rates each week for 3 weeks, finish programme with two more applications at full rates.



Week 1	Rocastem (10L/Ha)
Week 2	Rocastem (10L/Ha)
Week 3	Rocastem (10L/Ha)
Week 5	Rocastem (10L/Ha)
Week 7	Rocastem (10L/Ha)

HEAVY THATCH

(Summer to Autumn) Scarify then apply Rocastem and T-Thatch at full rates, two weeks later treat with T-Thatch at $\frac{3}{4}$ rate.



Week 1	Scarify + Rocastem (10L/Ha) + T-Thatch (48L/Ha)
Week 3	T-Thatch (36L/Ha)

FOR BURIED THATCH

(below scarifier depth) Treat during a dry period.



Week 1	Rocastem (10L/Ha) followed by hollow coring with sandfill
Week 2	Rocastem (10L/Ha) + T-Thatch (36L/Ha)
Week 3	Rocastem (10L/Ha)



that hinder the development of consistent, best performance

DRY PATCH

(late Spring to Autumn)

Programme involves fine coring twice with TX10 soil builder, Sumastem, Rhizostem and Plantmax.



Week 1	Fine core to 3cm and apply TX10 at 40g/m ² + Sumastem (20L/Ha)
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Week 2	Rhizostem (10L/Ha)
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Week 3	Fine core to 5cm and apply TX10 at 40g/m ² + Plantmax (20L/Ha)
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Week 4	Sumastem (20L/Ha)
---------------	-------------------

Week 5	Rhizostem (10L/Ha)
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ROOT-BREAK

(late Spring to Autumn)

Apply Rocastem for 4 weeks.



Week 1	Rocastem (10L/Ha)
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Week 2	Rocastem (10L/Ha)
---------------	-------------------

Week 3	Rocastem (5L/Ha)
---------------	------------------

Week 4	Rocastem (10L/Ha)
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DISEASE PRONE SITES

Clear excess water, build disease antagonistic microbe populations and clean-up soft organic disease harbour.



Week 1	Rocastem (10L/Ha) + Bru-Pre (10L/Ha)
---------------	--------------------------------------

Week 2	Plantmax (20L/Ha) + Bru-Fix (10L/Ha)
---------------	--------------------------------------

Week 3	Rocastem (5L/Ha) + T-Thatch (36L/Ha)
---------------	--------------------------------------

Week 4	Rocastem (5L/Ha) + Bru-Pre (10L/Ha)
---------------	-------------------------------------

Week 5	TCL Advance 18-2-2 (40L/Ha)
---------------	-----------------------------



ROCASTEM

Rocastem is a liquid aerator and root stimulator that works at microscopic level to hit and **help the 90% of the root zone you don't get with mechanical aeration.**

Use Rocastem for:

- » Firmer, truer playing surfaces year round
- » Drier warmer greens into Winter and earlier growth into Spring
- » Optimum moisture to air balance in the upper root zone
- » Root hair stimulation and healthy plant vigour

SEPARATION

The ionic action penetrates and flocculates clays, silts and very fine sands bound onto organic matter. Enzymes and bio-acids reduce organic matter strength.

DISPERSAL

Indigenous bacteria consume organic matter and very fine particles are free to drain down through the profile.

THE POWER OF 4 IN 1 ACTIONS ROCASTEM DOES MORE, WORKS MORE

ROOT HAIR BOOST

Organic acids, carbohydrates and more air stimulate root hairs and trigger plant vigour.

PERCOLATION

Microscopic drainage pathways clear and excess moisture drains more freely. Air is drawn into the root-zone.





**MECHANICAL
AERATION**



**MAXIMUM
AIR SPACE**

Application

1. Management program

4 to 5 treatments over 4 months / 10L per treatment over 10,000m²

2. Intensive program

4 treatments over 1 month (apply weekly) / 10L per treatment over 10,000m²

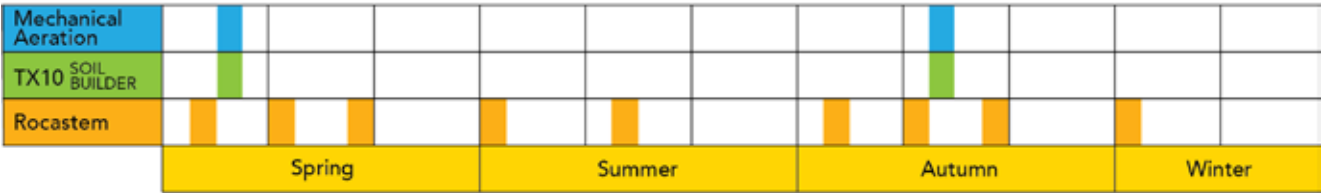
- ☞ 10L/Ha
- ☞ 1:25+L of water
- ☞ 10L
- ☞ Spring, Summer, Autumn and Winter

J	F	M	A	M	J
J	A	S	O	N	D



Example Program Guide

Commence treatment cycle anytime during Spring or Autumn



Best applied in 4-5 treatment cycles commencing at 3 week intervals and expanding to 5 weeks after the third application.



Since the inclusion of Rocastem in our aeration program there has been a reduction in invasive mechanical disturbance whilst giving us firmer drier greens that return to play much faster"

Dave Lowe, Head Greenkeeper, Bawtry Golf Club

SUMASTEM

A two-part ATD liquid including a microbial digestate to sustain summertime plant vigour. Sumastem formulae will **maximise the soil-water-plant relationship** through optimal soil moisture management, **enhanced nutrient capture, mobility and plant uptake.**

- » Better balanced rootzone air-to-water ratio
- » Continued Rootmass Viability through summer
- » Reduced plant moisture stress
- » Sustained plant health, colour and performance



Application

☞ 20L/Ha

Ideal follow on from Rocastem or Rhizostem programs

☞ 1:25L of water

☞ 10L

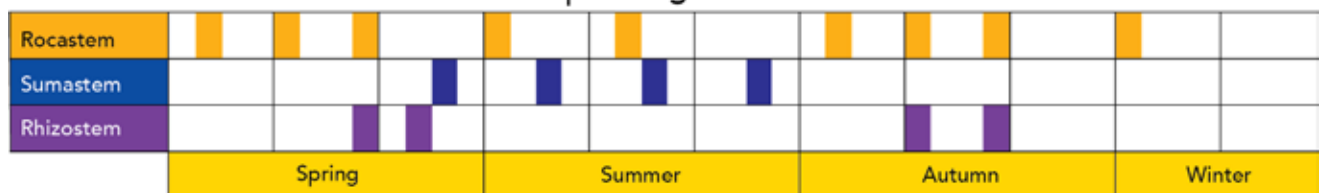
☞ Spring to Summer

J	F	M	A	M	J
J	A	S	O	N	D

Sumastem field trials



Example Program Guide



RHIZOSTEM

A highly evolved natural acid and enzyme liquid to **boost the rhizosphere symbiosis** between the microbes and the root system for:

- » Enhanced uptake of nutrients – Boosting natural stress tolerance and improving sward density
- » Increased rhizosphere microbial activity
- » Low CEC root-zone support for turf growth
- » Contains new ATD sustainable nutrition technology



Application

- » Recommend two applications following Spring maintenance when soil temperatures are above 10°C.
- » Rhizostem can also be used to sustain root systems in late summer heading in to the winter period.

☞ 10L/Ha

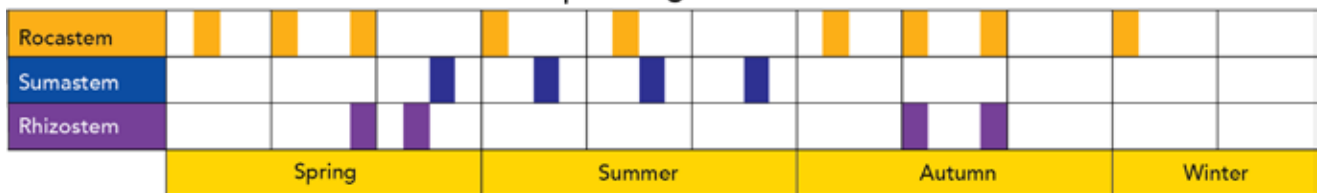
☞ 1:25+L of water

☐ 10L

☞ Spring to early Autumn

J	F	M	A	M	J
J	A	S	O	N	D

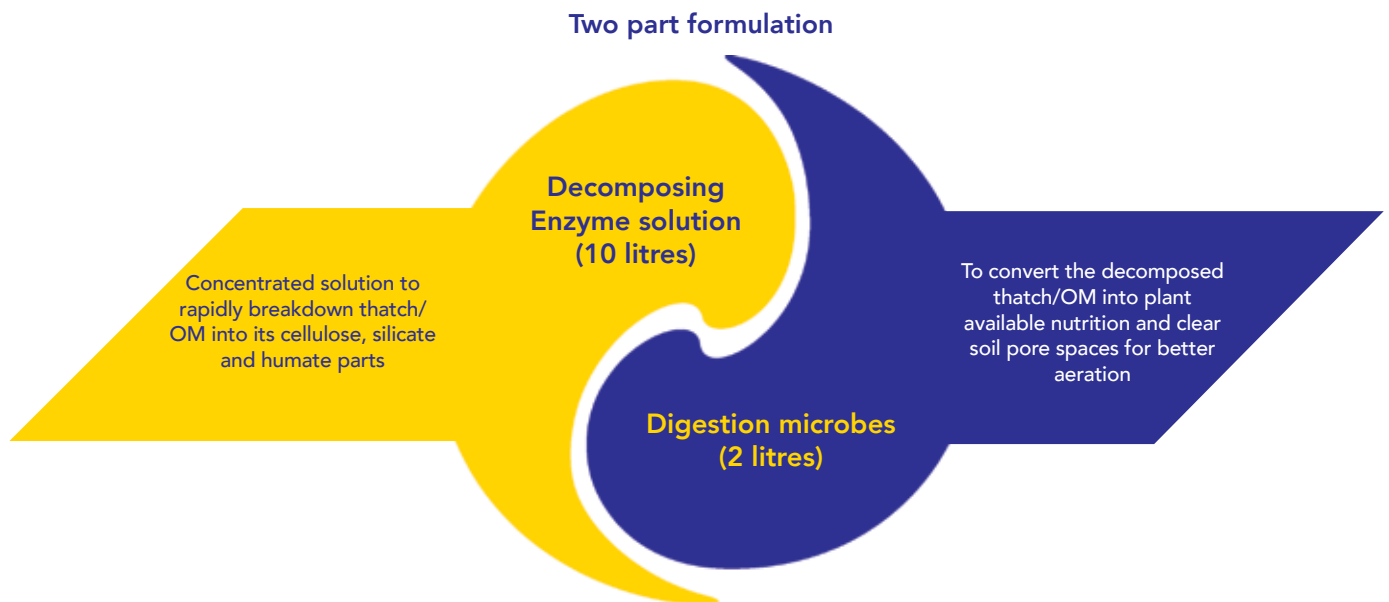
Example Program Guide



T-THATCH

Built-up thatch, as a dead spongy vegetative mass developing on the soil surface, leads to a constant dampness that dissolves and traps nutrient, causing horizontal root growth and creating the ideal harbour for disease fungi. **T-Thatch cleans up thatch and invigorates the grass sward** without disruption or loss of playing surface.

- » Improve playing surface firmness
- » Minimise disease harbour beneath the surface
- » Re-establish nutrient and water flow to the root zone



Application

1. Regular OM treatment

Apply once each season to consume accumulated organic matter created by the growth cycle. 36L/Ha

2. Standard thatch treatment

Apply to existing thatch to aggressively consume dead organic matter content, free up water / air movement and allow top-dressing sands into the profile. Standard rate: 36L/Ha. Heavy thatch: 48L/Ha

3. Scarifying and verti-cutting

Improve the results of scarifying and verti-cutting by following with a T-Thatch treatment. Standard rate: 36L/Ha. Heavy thatch: 48L/Ha

3. Intensive thatch programme

For deep or buried thatch. Please refer to the Turf grass challenges on page [26/27](#) for a full description.

☞ 36-48L/Ha

☞ 1:6+L of water

☞ 12L

☞ Late Spring to Autumn

J	F	M	A	M	J
J	A	S	O	N	D



Since including T-Thatch into our cultural maintenance program, we have noticed our greens have gained more surface firmness. I cannot recommend it enough"

Chris Wood, Course Manager, Shipley Golf Club

PLANTMAX (AMINO)

Plantmax's concentrated form contains **21% amino acids and enzymes in a 20% fulvic acid solution.**

- » Heightens grass vigour, colour and early sward density
- » Regulates growth in times of increased stress (close mowing, wet or dry/hot conditions)
- » Lifts uptake of potassium and calcium, whilst suppressing leaf 'water' build up.

Plantmax contains digested seaweed and food residue extracts full of oligosacchrides, amino acids, enzymes and fulvic acids + additional humic acid and casein protein for enhanced rhizosphere microbiology.



1. Spring to early Autumn programme

Use Plantmax ahead of stress periods to:

- » Regulate nutrient balance and water uptake within the plant
- » Stimulate photosynthesis and new leaf development
- » Promote root extension rather than leaf elongation

☞ 2, 3 or 4 treatments 21 days apart

20-30L/Ha (more is better with Plantmax)

In hot conditions 4 to 6 applications, 15 days apart at 10L/ha.

2. Late season stress treatment

Use Plantmax late season (Autumn) to extend grass performance:

- » Provide complexed natural acids for grass density
- » Stimulate photosynthesis and extend colour

☞ 1 treatment at 20-30L/Ha

3. Liquid feed additive

Add Plantmax to liquid and soluble feeds to:

- » Decrease required liquid feed application rates by 20%
- » Increase foliar absorption and chelation of liquid foliar nutrients
- » Built in added plant growth regulators

☞ 10L/Ha

*Plantmax may be tank mixed with other nutrient materials

☞ 10-30L/Ha.

☞ 1:10+L of water

☞ 10L

☞ Spring to Autumn

J	F	M	A	M	J
J	A	S	O	N	D



The digestion process used to make Plantmax **bio-converts vegetable and animal matter (food residue)** into their plant value parts:

DIGESTED ORGANIC MATTER IN PLANTMAX

Minerals and vitamins – the bulk that plant growth needs

Carbohydrates – (alginates) which are broken down into short chain oligosaccharides, a key to plant energy, development and disease immunity

Protein – which breaks down into amino acid plant building blocks and enzymes to assist plant utilisation of minerals and vitamins

Polyphenols – which break down into humic and fulvic acid links for plant nutrients

Phytohormones – vegetable and animal matter contains a very small amount of phytohormones.

A digestate liquid extract would typically contain:

20–30ppm	Auxins
2–10ppm	Gibberrellins
20–30ppm	Cytokinins
30–40ppm	Ethylene
30–40ppm	Abscisic Acid (ABA)

Whilst the phytohormone content is beneficial, the majority of the benefit comes from the oligosaccharides, amino acids and humic acids content of the mix.

The quality and quantity of these valuable materials will depend on the source and extraction process used.



Plantmax helps maintain grass colour and sward density and allows us to reduce our total yearly nitrogen input"

Brett Moggridge, Head Greenkeeper, Kirtlington Golf Club

SOILMAX (HUMIC)

Soilmax is a 30% humic/fulvic acid solution to **support grass performance**



Recommended for use Summer and Autumn to:

- » Improve the uptake of soil solution nutrients
- » Build grass resistance to sward thinning
- » Build grass upright strength for Summer/Autumn play
- » Build grass resilience at lower cutting heights

4 month programme consists of 4 treatments at 3 – 4 week intervals

☞ 20-30L/Ha.

☞ 1:10+L of water

☞ 10L

☞ Summer to Autumn

J	F	M	A	M	J
J	A	S	O	N	D

HUMIC ACID IN SOILMAX

Humic acid is a hydro-carbon constituent of decomposed animal and vegetable matter. Humic acids are found in everything from recently decomposed manures to ancient animal and vegetable deposits known as leonardite and will range from acid to alkaline pH.

Most commercial humic acid concentrates (both solid and liquid) are hydroxide extractions from mined leonardite and as such are alkaline (usually in the range pH 8.3 to 8.9) – this form of humic acid has the disadvantage that when added to a neutral or acidic soil solution its carbon fractions coagulate to form inert blockages in soil pore space.

In its most concentrated liquid form humic acid is stripped of most of its inert carbon links and its constituents have been broken down to smaller molecular weights by microbial and/or acid treatment (either naturally or man induced) – in this form it is often called Fulvic Acid to identify it from its original less refined, mostly alkaline, higher molecular weight form.

Terralift's Soilmax is different – it comes from the top layer of an ancient humate deposit that has been weathered over the aeons by acid rains and has an active microbial population, which when composted, naturally produces a very low molecular weight humic acid without hydroxide extraction making it a true Fulvic/humic acid combination with a natural acidic pH.



SOILMAX PLUS (HUMIC)

Soilmax Plus is a microbially developed acidifying solution (with no sulphur) **for buffering high pH soils and irrigation water.**

Soilmax Plus will release insoluble calcium and provide humic acid supports to:

- » Release locked-up nutrients such as Calcium, Potassium, Boron and Manganese
- » Increase water percolation
- » Delay soil compaction
- » Increase fertiliser efficiency
- » Ideal for use on high pH sites (above 7.0) or hard water areas



Application

1. High pH soils

- » Apply at 40L/Ha; Dilution 1:10+ litres water
- » Check pH at 4 week intervals and repeat as necessary

2. High pH irrigation water

- » Use Soilmax Plus at 40L/Ha following heavy irrigation
- » Or Quadrop drip feed 200ml/1000L every 3 to 4 cycles

3. Calcareous sand root-zones

- » Solubilise small amounts of inert calcium in calcareous sand root-zones for use by grass
- » Apply at 40L/Ha
- » Treat twice in any 3 month period

4. Hinder Take-All development

- » Acidify the soil surface as a hindrance to 'Take All' development, particularly useful on new greens
- If 'Take All' is already present treat site with Bru-Pre (or a fungicide) to disrupt fungal spore colonisation and follow-up 2 days later with Soilmax Plus
- » Apply at 2 litres/500m² (40L/Ha)

5. Clean spray units and mobilise foliar treatments

- » Add 100ml/100lts of solution in the tank spray

☞ Standard rate 20L/Ha. Hard water 40L/Ha

☞ 1:7+L of water

☞ 10L

☞ Late Spring to Autumn

J	F	M	A	M	J
J	A	S	O	N	D



I have been using Terralift as the back bone to my greens and tees nutrient needs for the last number of years and I am delighted with the consistency and stability of greens achieved...on high pH greens Soilmax Plus is a must!"

Willie Allen, Head Greenkeeper, Esker Hills Golf Club

SPORTSGRASS GRANULAR RANGE



8-12 weeks release

Terralift's Sportsgrass granulars are **multipurpose fertilisers** suitable for all turf areas including sports grounds, stadiums, fairways, equestrian venues, ornamental lawns, new construction and turf renovation. Each product is based on our Food Residue Organic Complex (FROC) providing higher levels of **humic acids, fulvic acids, plant growth regulators, enzymes and amino acids** for steady growth, greater density and strong root systems.

SPORTSGRASS 6-2-8

Works well in a wide variety of surface conditions from base feeding on sandy root zones to increasing wear tolerance on high usage swards.



- » Improved recovery without excessive top growth
- » Thickened sward density
- » Feeds the rootzone to develop strong root systems
- » Supports the sands - high in humic fractions and microflora food sources

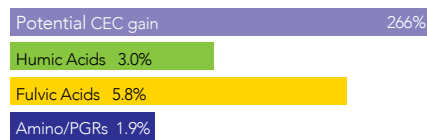
- ☞ 30-40g/m² standard rate. 40-60g/m² on hard worked areas
- ☞ 20kg, granule size: 2-4mm
- ☞ All Year

New construction and turf renovation

- ☞ 50g/m² turf laying, re-seeding and repair of bare or thin areas
- ☞ All Year

J	F	M	A	M	J
J	A	S	O	N	D

SPORTSGRASS 10-2-4



- » Use for kick and colour at key times through the growing season
- » Produce a strong dense sward and better soil rootzone health
- » Kinder to root development and supports microbial function
- » Improves CEC capacity of sand root zones

- ☞ 30g/m² standard rate. 40-60g/m² on hard worked areas
- ☞ 20kg, granule size: 2-4mm
- ☞ Spring to Autumn

J	F	M	A	M	J
J	A	S	O	N	D





We've been using Sportsgrass 6-2-8 for a number of years now with great results all year round. We use it across fairways, tees and approaches providing great colour with thick dense sward and divot recovery, whilst maintaining manageable clipping yields"

Richard Hitchman, Course Manager, Burford Golf Club

READY RECKONER

Granular Products	Pack Size	Application Rate	Pack Coverage	Longevity
Soilfix CaMg	20kg	20g/m ²	1000m ²	4-15 weeks
Soilfix high pH Ca	20kg	20g/m ²	1000m ²	4-15 weeks
Soilfix low pH Ca	20kg	20g/m ²	1000m ²	4-15 weeks
Soilfix Mg+	20kg	20g/m ²	1000m ²	4-15 weeks
Sportsgrass 6-2-8	20kg	20-60g/m ²	333-1000m ²	10-12 weeks
Sportsgrass 10-2-4	20kg	20-60g/m ²	333-1000m ²	8 weeks
T-Plex 3-0-6	20kg	30-50g/m ²	400-666m ²	14 weeks
T-Plex 7-0-11	20kg	20-30g/m ²	666-1000m ²	12-14 weeks
T-Plex 11-0-10	20kg	30-50g/m ²	400-666m ²	14 weeks
TX 5-1-16	20kg	20-40g/m ²	500-1000m ²	10 weeks
TX 9-1-10	20kg	20-60g/m ²	333-1000m ²	10 weeks
TX 11-1-5	20kg	20-60g/m ²	333-1000m ²	10 weeks
TX Humus	20kg	20-50g/m ²	400-1000m ²	6-12 weeks
TX10	20kg	20-50g/m ²	400-1000m ²	10 weeks

Liquid Products	Pack Size	Application Rate	Pack Coverage	Dilution Rate	Water Volume L/Ha	Longevity
Bru-Clear	10L	30-40L/Ha	2,500-3,333m ²	1:25	750-1000	n/a
Bru-Fix	10L	10L/Ha	10,000m ²	1:25+	250+	n/a
Bru-Hold	10L	10-15L/Ha	6,666-10,000m ²	1:25	250-375	n/a
Bru-Plus	10L	30-40L/Ha	2,500-3,333m ²	1:12	500 max	n/a
Bru-Post	10L	15-20L/Ha	5,000-6,666m ²	1:15+	300 max	n/a
Bru-Pre	10L	10-20L/Ha	5,000-10,000m ²	1:20+	300-400	n/a
TCL Advance 18-2-2	10L	40-60L/Ha	1,666-2,500m ²	1:5+	200-300+	4 weeks
TCL Strength 0-0-15	10L	20-40L/Ha	2,500-5,000m ²	1:5+	100-200+	4 weeks
Plantmax	10L	10-30L/Ha	3,333-10,000m ²	1:10+	100-300+	n/a
Rhizostem	10L	10L/Ha	10,000m ²	1:25+	250+	n/a
Rocastem	10L	10L/Ha	10,000m ²	1:25+	250+	n/a
Soilmax	10L	20-30L/Ha	3,333-5,000m ²	1:10+	200-300+	n/a
Soilmax Plus	10L	20-40L/Ha	2,500-5,000m ²	1:7+	400	n/a
Sumastem	10L	20L/Ha	5,000m ²	1:25	300-400	n/a
T-Thatch	12L	36-48L/Ha	2,500-3333m ²	1:6+	400-600	n/a

SPREADER SETTINGS

Accupro 360T						
	Single/Double Pass	SmartSpread Setting	20g/m ²	30g/m ²	40g/m ²	Width
TX range	SP	H	14.5	17	19	3.0m
	DP	H	11	12.5	14.5	3.0m
T-Plex range	SP	H	14.5	17	19	3.5m
	DP	H	11	12.5	14.5	3.5m
Soilfix range	SP	H	17	-	-	4.0m
	DP	H	13.5	-	-	4.0m
Sportsgrass range	SP	F	15	-	18.5	4.2m
	DP	F	10.5	-	13	4.2m

Disclaimer: The spreader settings are a guideline only. The spreader should be calibrated prior to application to ensure accuracy. The spreader settings are based on a walking speed of 5.4km/hour (1.5m per second). Walking faster or slower than 5.4km/h will alter the spread width and application rate. Exact rates are dependent upon the spreader itself and the accuracy of the person operating it. Scorch risk is low but irrigation is recommended after application.

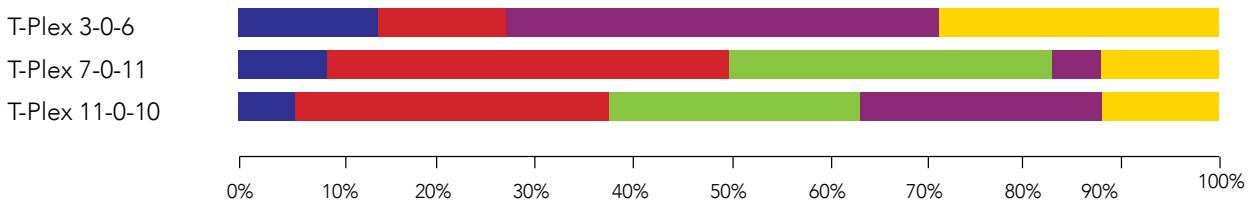
NITROGEN SOURCES

The granular fertiliser ranges all contain 4 or 5 different nitrogen sources combined in a layered format ensuring release continuity over 10-14 weeks. The charts below can help with the selection of the most suitable product for your soil type and grass variety.

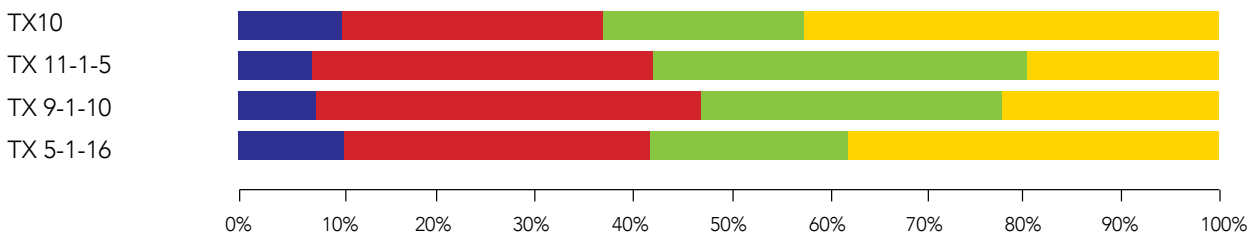
Key

- Nitrate
- Ammoniacal
- Urea
- MU Short Chain
- Organic

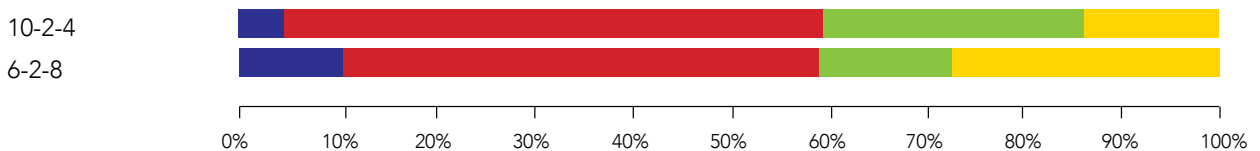
T-Plex Range (see page 17)



TX Range (see pages 12-15)



Sportsgrass Range (see page 38)



TANK MIXING COMPATIBILITY CHART

	Bru-Clear	Bru-Fix	Bru-Hold	Bru-Post	Bru-Pre	Bru-Plus	TCL Advance 18-2-2	TCL Strength 0-0-15	Plantmax	Rhizostem	Rocastem	Soilmax	Soilmax Plus	Sumastem	T-Thatch
Bru-Clear	Compatible	Do not mix	Do not mix	Do not mix	Compatible	Do not mix	Do not mix	Do not mix	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible
Bru-Fix	Do not mix	Compatible	Do not mix	Do not mix	Do not mix	Do not mix	Do not mix	Do not mix	Do not mix	Do not mix	Do not mix	Do not mix	Do not mix	Do not mix	Do not mix
Bru-Hold	Do not mix	Do not mix	Compatible	Do not mix	Do not mix	Do not mix	Do not mix	Do not mix	Do not mix	Do not mix	Do not mix	Do not mix	Do not mix	Do not mix	Do not mix
Bru-Post	Do not mix	Do not mix	Do not mix	Compatible	Do not mix	Do not mix	Do not mix	Do not mix	Do not mix	Do not mix	Do not mix	Do not mix	Do not mix	Do not mix	Do not mix
Bru-Pre	Compatible	Do not mix	Do not mix	Do not mix	Compatible	Do not mix	Do not mix	Do not mix	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible
Bru-Plus	Compatible	Do not mix	Compatible	Do not mix	Compatible	Do not mix	Do not mix	Do not mix	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible
TCL Advance 18-2-2	Compatible	Do not mix	Do not mix	Do not mix	Do not mix	Do not mix	Compatible	Do not mix	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible
TCL Strength 0-0-15	Compatible	Do not mix	Do not mix	Do not mix	Do not mix	Do not mix	Do not mix	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible
Plantmax	Compatible	Do not mix	Do not mix	Do not mix	Compatible	Do not mix	Do not mix	Do not mix	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible
Rhizostem	Compatible	Do not mix	Do not mix	Do not mix	Compatible	Do not mix	Do not mix	Do not mix	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible
Rocastem	Compatible	Do not mix	Do not mix	Do not mix	Compatible	Do not mix	Do not mix	Do not mix	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible
Soilmax	Compatible	Do not mix	Do not mix	Do not mix	Compatible	Do not mix	Do not mix	Do not mix	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible
Soilmax Plus	Compatible	Do not mix	Do not mix	Do not mix	Compatible	Do not mix	Do not mix	Do not mix	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible
Sumastem	Compatible	Do not mix	Do not mix	Do not mix	Compatible	Do not mix	Do not mix	Do not mix	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible
T-Thatch	Compatible	Do not mix	Do not mix	Do not mix	Compatible	Do not mix	Do not mix	Do not mix	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible



Compatible for tank mixing



Do not tank mix

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Made of more.

Terralift stands as the **only** fully integrated food residue bio-converter and sports turf nutrient manufacturer in the world.

Technologies employed at our facilities include dry composting, aerobic wet digestion, fusion granulation and microbial growth solutions.



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