



THE GROWING COMPANY

P R O D U C T G U I D E

E d i t i o n 2



Welcome to Aitkens 'the growing company'

We are a family business with four generations of experience in serving the turf maintenance industry. We have got to where we are in the industry today because we care and offer a dynamic service to our loyal customer base, who return year after year for advice and the service we offer.

In this our latest product guide, we have added even more product detail than previous versions. We hope this will prove to be a useful working document for you.

We offer an extensive range of distribution and products that makes it impossible for us to list everything we offer in our guide. Therefore, if you cannot find what you are looking for please do not hesitate to contact us.

Our staff, are our most important asset who bring a wealth of experience and professionalism to offer you a service of the highest standard. Please make sure you use the services they offer including advice, nutrition programmes, soil and water analysis among many other things.

We hope whether you are an existing customer or a potential new customer, that you will find this guide useful. We look forward to working with you in the coming years.

Richard Aitken
Managing Director

4-11	Fineturf Fertilisers	68-70	Total Herbicides
12-19	Outfield Fertilisers	71	Aquatic Herbicides & Products
21	Landscape Fertilisers	72	Growth Regulators
22-35	Liquid Fertilisers	73	Insecticides
36-40	Biostimulants & Soil Improvers	74-75	Spray Indicators, Adjuvants, Spraying Aids & Colourants
41-53	Grass Seed & Turf	76-81	Wetting Agents
54	Top Dressing, Rootzones, Sands, Aggregates & Loam	82-85	Line Marking & Line Marking Machines
55	Drainage	86-89	Sprayers & Spreaders
56-58	Liquid Irons	90-91	Irrigation & Water Solutions
59-60	Moss Control, Biocides & Specialist Fertilisers	92	Other Product Ranges
61-63	Integrated Turf Management Products	93	Aitkens Services
64-65	Fungicides	94	Tank Mixing Chart
66-67	Selective Herbicides		

Vision Ultimax-S Fineturf

- Seaweed
- Four Nitrogen Sources
- Methylene Urea Slow Release
- Amino Acid
- Humic Acid
- Organic Complex
- Trace Elements



An exceptional range of organic complex fertiliser carefully wrapped and infused with seaweed.

Ultimax-S has been developed using the most highly efficient method of controlled composting, a process that fully bio-converts the organic matter with the minimum of inert fibre inclusion. The carefully selected food residues have been selected to carry all the constituents needed to maximize the production of amino acids, humate acids and plant growth regulators.

The composted material is then infused with a composted seaweed inclusion and wrapped with a liquid seaweed. Seaweed has a long history of helping to build and maintain soil fertility and plant health; many competent products contain seaweed or its derivatives. The seaweed will rehydrate on contact with soil moisture giving an initial liquid seaweed boost, followed by extended seaweed response from the composted seaweed inclusion in the granule.

The discovery that the skilful combining of Ascophyllum nodosum seaweed with food organic complex in a managed compost system, produces a multiplying of their individual capabilities. The plant benefits by surprising gains in grass vigour, colour and growth, bringing us to a new level of appreciation for these two ingredients.

Benefits:

- Gives an exceptional colour response
- Extends nutrient release to avoid soft top growth
- Contains 4 nitrogen sources for an immediate response year round
- Quickens uptake of natural seaweed bio-stimulants
- Has high quality Ascophyllum nodosum seaweed, high in Bioactive compounds
- Enhances microbial activity
- Produces a denser, more resilient sward
- Supplies a balanced natural trace element package
- Enhances the plants metabolic use of N, P, K, Ca & Mg
- Contains Soya isolates to boost protein and enzymes available for root extension
- Builds amino chains that boost nutrient absorption
- Low sulphur levels compared to standard mineral fertilisers
- Resulting in an opportunity to apply less fertiliser at each application

Ultimax-S 14-1-6+2%MgO+8%CaO

- A high nitrogen spring and summer fertiliser without soft top growth
- Contains natural amino and humic acids with trace elements
- A fertiliser ideally suited where low phosphate levels are required
- Contains trace elements within the organic complex

Nutrient applied at 30g/m² N-42 P-3 K-18 kg/ha



Ultimax-S 10-0-10+3%MgO+9%CaO

- Spring and summer formulation where no phosphate is required
- High levels of potash to boost soil reserves and promote hard wearing grass
- 3% magnesium for improved photosynthesis
- The biostimulants will help the plant during summer stress periods

Nutrient applied at 30g/m² N-30 P-0 K-30 kg/ha



Ultimax-S 8-2-8+3%MgO+2%Fe+9%CaO

- An analysis designed for use during the growing season
- Added iron will harden the plant while providing enhanced turf colour
- Rich in humic acid that offers enhanced disease resistance and stress tolerance
- Will help increase rootmass and provide slow sustained growth

Nutrient applied at 30g/m² N-24 P-6 K-24 kg/ha



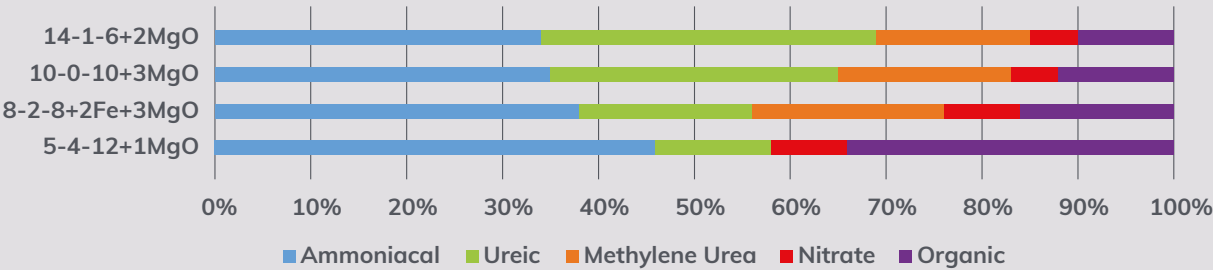
Ultimax-S 5-4-12+1%MgO+8%CaO

- An ideal autumn or early season feed
- High levels of potassium to promote hardening of soft growth and improve wear tolerance
- Phosphate will encourage root development
- Enhanced sward density and colour without excessive growth

Nutrient applied at 30g/m² N-15 P-12 K-36 kg/ha



Nitrogen Breakdown



Product	Pack Size	Rate (g/m ²)	Coverage (m ²)	Longevity (weeks)	Usage Period (Month)											
					J	F	M	A	M	J	J	A	S	O	N	D
Ultimax-S 14-1-6+2%MgO+8%CaO	20kg	25-35g/m ²	571-800 m ²	12												
Ultimax-S 10-0-10+3%MgO+9%CaO	20kg	25-35g/m ²	571-800 m ²	12												
Ultimax-S 8-2-8+3%MgO+2%Fe+9%CaO	20kg	25-35g/m ²	571-800 m ²	12												
Ultimax-S 5-4-12+1%MgO+8%CaO	20kg	25-35g/m ²	571-800 m ²	12												

Application rates			Application rate (Full rate)			Application rate (Half rate)		
Spreader settings	Spread width (m)	Cone setting	25 g/m ²	30 g/m ²	35 g/m ²	25 g/m ²	30 g/m ²	35 g/m ²
Accupro 2000 / SR-2000	3	4	L	L 1/2	M	I 1/2	J 1/2	K
En-N-Spred Range	3	-	17	18	20	14	15	16

This chart is produced as a guide only.



Vision Nutri-Smart Fineturf

- RSi - Root Stimulant & Improver
- Amino Acid
- Humic Acid
- Trace Elements
- Carbon



A cutting-edge range of complex high performance granular fineturf fertilisers with a multitude of benefits.

Vision Nutri-Smart is a range of complex, high performance fineturf granular fertilisers. Nutri-Smart is a combination of conventional release fertiliser with the addition of lignite, trace elements, RSi humic and amino acids. These have been added to provide smart nutrition and a healthy plant with extra resilience during periods of stress. All these nutrients have been formulated into a homogenous 1-2mm micro granule, ensuring that every granule contains the same analysis and provides a uniform application and result.

Benefits:

- Advanced longevity and colour up to eight weeks
- Increased nutrient performance
- Improved stress resistance and aids recovery
- Contains RSi to improve root and shoot mass
- Stimulates microbial activity and increases plant stress performance
- Boosts available CEC for enhanced longevity and improves nutrient uptake
- Contains the necessary trace elements for healthy turf
- Prevents trace element deficiency
- Increases chlorophyll concentration leading to improved photosynthesis
- Will not produce growth flushes when applied
- Dust-free micro granules for an accurate application

RSi (Root Stimulant and Improver)

A natural complex carbon organic chelator and microbial stimulator. RSi contains a high percentage of humic acid, which improves the plant's ability to take up vital nutrients. RSi will encourage deeper rooting and will stimulate microbial activity. It also contains a wide range of natural trace elements to help maintain levels in the rootzone.

Amino Acids

Amino acids are required to produce a healthy plant and encourage deeper rooting. During times of stress e.g. heavy rainfall, anaerobic soil conditions, compacted soil, high salinity, frost, cold, heat and drought, there is a greater demand for amino acids. The addition of supplemental amino acids (L-Form) to the Nutri-Smart range of fertilisers help alleviate turf stress and provide a healthier, stronger plant.

Trace Element Package (Te)

A combination of all the necessary micro nutrients required for healthy turf has been added, including zinc, copper and manganese. This provides increased leaf strength, improved rooting and an improved plant metabolism.

Lignite (Lig)

Lignite contains over 13 trace elements, humic and fluvic acids, which give support for microbial activity. Lignite also provides a high Cation Exchange Capacity (CEC) when compared to many soil amendments. It allows nutrients to be held for longer periods of time in the soil, enabling them to be fully utilised by the plant, therefore reducing loss by leaching.

Nutri-Smart 4-0-10+11%Fe+4.7%CaO+RSi+Amino+Lig+Te

- High iron content to discourage moss ingress and strengthen the plant against disease
- Iron and Lignite will give improved colour over a longer period of time
- Designed to sustain turf health in the early and late season
- Amino acid will hasten turf response in cooler temperatures



Nutrient applied at 35g/m² N-14 P-0 K-35 kg/ha

Nutri-Smart 8-0-12+2%Fe+4%MgO+7.7%CaO+RSi+Amino+Lig+Te

- A NK formulation that will improve shoot and root density and increase root length
- Good levels of magnesium and iron will give good colour over a longer period
- The RSi stimulates microbial activity and will help increase the plants stress tolerance
- Two sources of nitrogen will deter flushed growth



Nutrient applied at 35g/m² N-28 P-0 K-42 kg/ha

Nutri-Smart 6-6-10+3%MgO+12.8%CaO+RSi+Amino+Lig+Te

- NPK ratio suited to late and early use
- Ideal for using as a pre-seeder on greens when over sowing sensitive fescues and bent, no ferrous sulphate is present
- 100% Ammoniacal nitrogen gives rapid results even in low soil temps
- Good levels of potassium provide a stronger plant during periods of stress



Nutrient applied at 35g/m² N-21 P-21 K-35 kg/ha

Nutri-Smart 4-4-20+3%Fe+3%MgO+7.1%CaO+Kali+RSi+Amino+Lig+Te

- A NPK analysis containing both standard and Kali slow release potassium for a consistent release pattern
- High potassium levels will act as a base feed while the iron will harden the turf
- Uniform growth without growth flushes at disease critical times
- Added iron and magnesium enhance turf colour with increased longevity



Nutrient applied at 35g/m² N-14 P-14 K-70 kg/ha

Nutri-Smart 11-0-11+2Fe+3MgO+3.2%CaO+RSi+Amino+Lig+Te

- A 1:1 NK ratio for situations where no phosphate is required
- Advanced longevity due to CEC boost from the Lignite
- Amino acids increase the plants stress tolerance during the playing season
- Added trace elements ensure all minor nutrients are not deficient



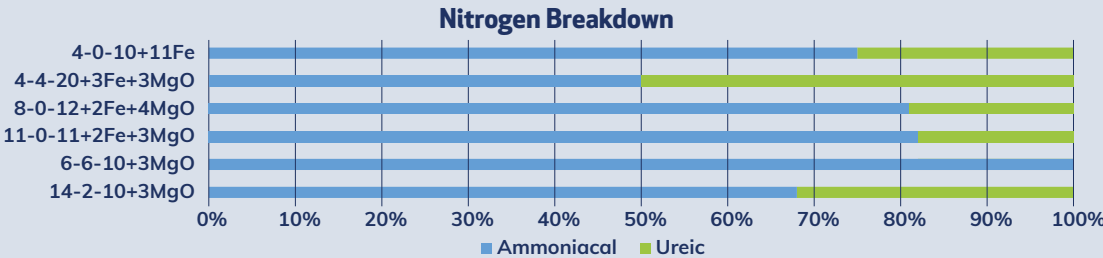
Nutrient applied at 35g/m² N-38.5 P-0 K-38.5 kg/ha

Nutri-Smart 14-2-10+3MgO+3.4%CaO+RSi+Amino+Lig+Te

- High nitrogen NPK spring and summer fertiliser without excessive growth
- 3% magnesium for improved photosynthesis and turf colour
- RSi will help stimulate microbial activity and help increase the plants stress tolerance
- Phosphate and potassium promotes a strong healthy sward



Nutrient applied at 35g/m² N-49 P-7 K-35 kg/ha



Product		Pack Size	Rate (g/m ²)	Coverage (m ²)	Longevity (weeks)	Usage Period (Month)											
4-0-10+11%Fe+4.7%CaO+RSi+Amino+Lig+Te		20kg	30-35g/m ²	571-666 m ²	8	J	F	M	A	M	J	J	A	S	O	N	D
4-4-20+3%Fe+3%MgO+7.1%CaO+Kali+RSi+Amino+Lig+Te		20kg	30-35g/m ²	571-666 m ²	8	J	F	M	A	M	J	J	A	S	O	N	D
8-0-12+2%Fe+4%MgO+7.7%CaO+RSi+Amino+Lig+Te		20kg	30-35g/m ²	571-666 m ²	8	J	F	M	A	M	J	J	A	S	O	N	D
11-0-11+2Fe+3MgO+3.2%CaO+RSi+Amino+Lig+Te		20kg	30-35g/m ²	571-666 m ²	8	J	F	M	A	M	J	J	A	S	O	N	D
6-6-10+3%MgO+12.8%CaO+RSi+Amino+Lig+Te		20kg	30-35g/m ²	571-666 m ²	8	J	F	M	A	M	J	J	A	S	O	N	D
14-2-10+3MgO+3.4%CaO+RSi+Amino+Lig+Te		20kg	30-35g/m ²	571-666 m ²	8	J	F	M	A	M	J	J	A	S	O	N	D

Application rates			Application rate (Full rate)		Application rate (Half rate)	
Spreader settings	Spread width (m)	Cone setting	30 g/m ²	35 g/m ²	30 g/m ²	35 g/m ²
Accupro 2000 / SR-2000	3	4	L 1/2	M	J 1/2	K
En-N-Spred Range	3	-	19	20	15	15.5

This chart is produced as a guide only.

Terralift Fineturf

Terralift composted fertilisers are a complex organic blend high in humic fractions and microflora food sources.

The free-calcium and enzymes along with the plant growth regulators give a slow even uptake of the nutrients, guarding against soft lush top growth and encouraging deep healthy roots whilst minimising disease outbreaks. It also provides a low risk of scorching and reduced nutrient loss through leaching.

The technologies developed by Terralift have evolved through emphasis on fully exploiting natural materials and their capacity to optimise the soil chemistry together with the plant's efficiency in its uptake and use of applied nutrition.

The technologies developed by Terralift have evolved through emphasis on fully exploiting natural materials and their capacity to optimise the soil chemistry together with the plant's efficiency in its uptake and use of applied nutrition.

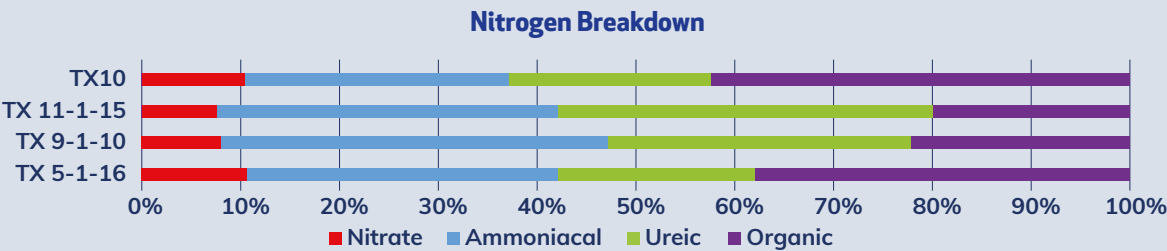


These technologies include:

- FROC-Food Residue
- Organic Complex
- Technology ATD-Advanced
- Thermophilic Digestion Technology
- NORF-Nitrogen + Organic Fusion
- Granulation Technology
- MORC-Methylene Urea (MU) + Organic Complex Technology

Benefits:

- Mini granule formulation for easy application
- Sustained longevity up to 10 weeks
- Produce a denser sward with less top growth
- Improve soil health as well as plant health
- Contain a wide range of organic trace elements
- Contain good high levels of humic, fulvic and amino acids



TX Range FINETURF FERTILISERS

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. Include FROC and NORF technologies.

TX10 5-2-8 + Mycorrhiza + Wetting Agent

- Produce a denser sward with less top growth
- Added mycorrhiza to enhance the root hair soil web
- Improve Cation Exchange Capacity (CEC) with free-calcium and high humic acid levels
- Stimulate root-mass with seaweed and amino acids



Nutrient applied at
30g/m² N-15 P-6 K-24 kg/ha

TX11-1-5

- Lift early season colour and pushes growth in cold conditions
- Higher nitrogen, humic acids and minimal leach factors make it ideal for regular use on newly constructed greens and tees
- Well suited to acidic soil conditions
- An ideal all season fertiliser for sand based greens



Nutrient applied at
30g/m² N-33 P-3 K-15 kg/ha

TX9-1-10

- Improve and maintain sward density in spring into summer
- The seaweeds, humic acids and potassium combat turf stress under close mowing
- Organic trace elements and free-calcium provide balanced nutrition for even growth
- Supports potash needs into autumn



Nutrient applied at
30g/m² N-27 P-3 K-30 kg/ha

TX5-1-16+3.4%Fe

- Built in CEC for potassium longevity
- Condition fineturf for prolonged periods of heavy play with prolonged colourhold
- Speciality dressing for low CEC rootzones
- Added iron for colour and hardening of the plant



Nutrient applied at
30g/m² N-15 P-3 K-48 kg/ha

TX Humus & Mycorrhiza

- Improve soil structure and build microbiology
- Boost passive fertility
- Ideal to build a base for liquid feed program
- Replenish tired soils



Product	Pack Size	Rate (g/m ²)	Coverage (m ²)	Longevity (weeks)	Usage Period (Month)
TX10 5-2-8 + Mycorrhiza + Wetting Agent	20kg	20-40g/m ²	500-1000 m ²	10	J F M A M J J A S O N D
TX11-1-5	20kg	30g/m ²	667 m ²	10	J F M A M J J A S O N D
TX9-1-10	20kg	30g/m ²	667 m ²	10	J F M A M J J A S O N D
TX5-1-16+3.4%Fe	20kg	30g/m ²	667 m ²	10	J F M A M J J A S O N D
TX Humus & Mycorrhiza	20kg	20g/m ²	1000 m ²	6-12	J F M A M J J A S O N D

Application rates			Application rate (Full rate)		Application rate (Half rate)	
Spreader settings	Spread width (m)	Cone setting	30 g/m ²	40 g/m ²	30 g/m ²	40 g/m ²
Accupro 2000 / SR-2000	2 - 2.5	7	O	P	L 1/2	N

This chart is produced as a guide only.

T-Plex Range

FINETURF FERTILISERS

A range of fineturf granular combine an organic complex with methylene urea technology to provide extended release over 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 rootzone. Include FROC, MORC and NORF technologies.

T-Plex 3-0-6+MU

- Low nitrogen regime nutrition with methylene urea
- Safe winter fertiliser for colour
- Builds soil reserves for spring
- Contains 5% calcium & 2% seaweed



Nutrient applied at
30g/m² N-9 P-0 K-18 kg/ha

T-Plex 8-0-16+MU

- Spring and summer organic nutrition
- Methylene urea for over 14 weeks longevity
- Potassium resilience into winter
- Contains 5% calcium



Nutrient applied at
30g/m² N-24 P-0 K-48 kg/ha

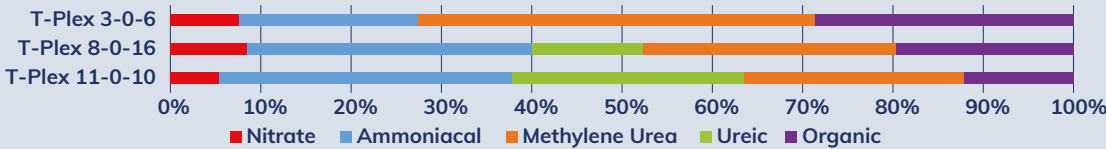
T-Plex 11-0-10+MU

- Quickens growth into summer
- Methylene urea for over 14 weeks longevity
- Strong colour presentation
- Contains 6% calcium



Nutrient applied at
30g/m² N-33 P-0 K-30 kg/ha

Nitrogen Breakdown



Product	Pack Size	Rate (g/m ²)	Coverage (m ²)	Longevity (weeks)	Usage Period (Month)											
T-Plex 3-0-6+MU	20kg	30-40g/m ²	500-667 m ²	14	J	F	M	A	M	J	J	A	S	O	N	D
T-Plex 8-0-16+MU	20kg	30-40g/m ²	500-667 m ²	14	J	F	M	A	M	J	J	A	S	O	N	D
T-Plex 11-0-10+MU	20kg	30-40g/m ²	500-667 m ²	14	J	F	M	A	M	J	J	A	S	O	N	D

Application rates			Application rate (Full rate)	Application rate (Half rate)
Spreader settings	Spread width (m)	Cone setting	30 g/m ²	40 g/m ²
Accupro 2000 / SR-2000	2.5	7	L 1/2	N

This chart is produced as a guide only.

FINETURF POWDER FERTILISER

A range of traditional powder fertilisers which have stood the test of time.

These products are spread easily and are quickly washed off the grass surface into the soil. This limits collection by mowers, being trampled around

Aitkens Lawn Sand 5-0-0+2.9%Fe

- Powder Formulation
- High iron content will help harden the plant and provide good colour
- Effective dressing for early spring
- Will help produce a healthy and resilient sward



Nutrient applied at
70g/m² N-35 P-0 K-0 kg/ha

Aitkens Lawn Sand Plus 3-0-0+7%Fe

- Powder Formulation
- Higher iron content will help harden the plant and provide good colour
- Effective dressing for early spring
- Will help produce a healthy and resilient sward



Nutrient applied at
70g/m² N-21 P-0 K-0 kg/ha

SS/D Original 8-0-0

- The original SS/D used and recommended by professionals for years
- Combines quality sourced organic and inorganic nitrogen to give a phased release
- The original formulation will help stimulate soil bacterial activity and feed the plant / soil system
- Ideal as a regular spring and summer treatment without iron



Nutrient applied at
70g/m² N-56 P-0 K-0 kg/ha

SS/D Original 8-0-0+2%Fe

- The original SS/D used and recommended by professionals for years
- 2% iron helps harden and green-up the grass and also acts as a moss deterrent
- The original formulation will help stimulate soil bacterial activity and feed the plant / soil system
- Reliable performance that you can control



Nutrient applied at
70g/m² N-56 P-0 K-0 kg/ha

SS/D+K Original 8-0-6

- The original SS/D used and recommended by professionals for years
- Added 6% potassium helps where deficiencies occur
- The original formulation will help stimulate soil bacterial activity and feed the plant / soil system
- Contains essential trace elements that are naturally present in the



Nutrient applied at
70g/m² N-56 P-0 K-42 kg/ha

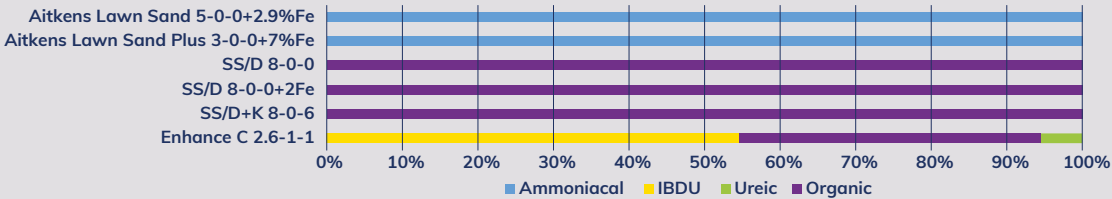
Enhance C Soil Conditioner 2.6-1-1

- Natural based soil conditioner containing plant extracts
- Natural plant Saponins enhances the plants natural defence
- Contains slow release nitrogen
- Will increase microbial activity and boost plant health



Nutrient applied at
30g/m² N-8 P-2.5 K-3.1 kg/ha

Nitrogen Breakdown



Product	Pack Size	Rate (g/m ²)	Coverage (m ²)	Longevity (weeks)	Usage Period (Month)											
Aitkens Lawn Sand 5-0-0+2.9%Fe	20kg	35-140g/m ²	142-571 m ²	4-6	J	F	M	A	M	J	J	A	S	O	N	D
Aitkens Lawn Sand Plus 3-0-0+7%Fe	25kg	35-70g/m ²	357-714 m ²	4-6	J	F	M	A	M	J	J	A	S	O	N	D
SS/D Original 8-0-0	25kg	70g/m ²	357 m ²	8	J	F	M	A	M	J	J	A	S	O	N	D
SS/D Original 8-0-0+2%Fe	25kg	70g/m ²	357 m ²	8	J	F	M	A	M	J	J	A	S	O	N	D
SS/D+K Original 8-0-6	25kg	70g/m ²	357 m ²	8	J	F	M	A	M	J	J	A	S	O	N	D
Enhance C Soil Conditioner 2.6-1-1	20kg	30g/m ²	666 m ²	10-12	J	F	M	A	M	J	J	A	S	O	N	D

REWARD CRF

Controlled Release Fertiliser



A fine 1-2mm controlled release fertiliser formulated for quality turf and designed to release nutrients carefully over time.

This range of 3-4 month and 4-5 month fertilisers have been developed to efficiently feed the plant over a prolonged period. They will help the plant prevent and manage nutrient stress conditions associated with today's requirements for quality turf.

A long steady release profile reduces the number of applications required and minimises losses through volatilisation and leaching, to provide both cost and environmental benefits. It will help the sward keep an even colour, playability and health without peaks of excessive growth or nutrient hunger.

Benefits:

- Unique, durable coating provides gradual consistent N release when needed to optimise nutrient uptake
- Two longevity ranges 3-4 month & 4-5 months
- A fine 1-2mm granulation enables precise spreading with no speckling
- High level of coated N plus conventional release for a good initial response
- Fewer applications save time and make it a long term economical option

Reward CRF 22-5-10+3%MgO (4-5 Month)

- An ideal analysis for the start of the growing season to produce a healthy plant
- Balanced NPK formulation
- Gives an exceptional colour, which will last up to 5 months
- The longevity allows fewer applications saving time and staff costs

Nutrient applied at
35g/m² N-77 P-17.5 K-35 Kg/ha



Reward CRF 13-5-20+3%MgO (4-5 Month)

- A modern turf hardener ideal for use into the autumn / winter but can be used year round
- The high potassium will help harden the plant and strengthen cell walls, making the plant less susceptible to disease
- Gives an exceptional colour, which will last up to 5 months
- Magnesium content will help improve turf colour

Nutrient applied at
35g/m² N-45.5 P-17.5 K-70 Kg/ha



Reward CRF 21-3-14+3%MgO (3-4 Month)

- Encourages healthy balanced growth during the main growing season
- Fine 1-2mm granulation helps to provide precise application
- High magnesium levels for good colour response
- Will provide an extended release of up to 4 months

Nutrient applied at
35g/m² N-73.5 P-10.5 K-49 Kg/ha



Reward CRF 17-7-12+1%Fe+3%MgO (3-4 Month)

- Ideal for anytime between spring and autumn
- Contains magnesium and iron, which improve turf health and colour
- Balanced NPK formulation
- Less product is lost to leaching and volatilization, reducing environmental impact

Nutrient applied at
35g/m² N-59.5 P-24.5 K-56 Kg/ha



Reward 15-15-5+3%MgO (3-4 Month)

- Ideal during renovation time, over-seeding or laying new turf
- High phosphate will promote strong root growth
- Ideal pre-seeder to aid seed germination and establishment
- Good level of slow release nitrogen for establishment

Nutrient applied at
35g/m² N-52.5 P-52.5 K-17.5 Kg/ha



Reward CRF 11-4-22+1%Fe+3%MgO (3-4 Month)

- Ideal to strengthen turf during autumn, winter and early spring
- This analysis will help the plant during periods of stress and can be used as a pre-stress conditioner
- High potassium and iron will harden the turf and strengthen plant cell walls
- Magnesium and iron will give enhanced colour

Nutrient applied at
35g/m² N-38.5 P-14 K-77 Kg/ha

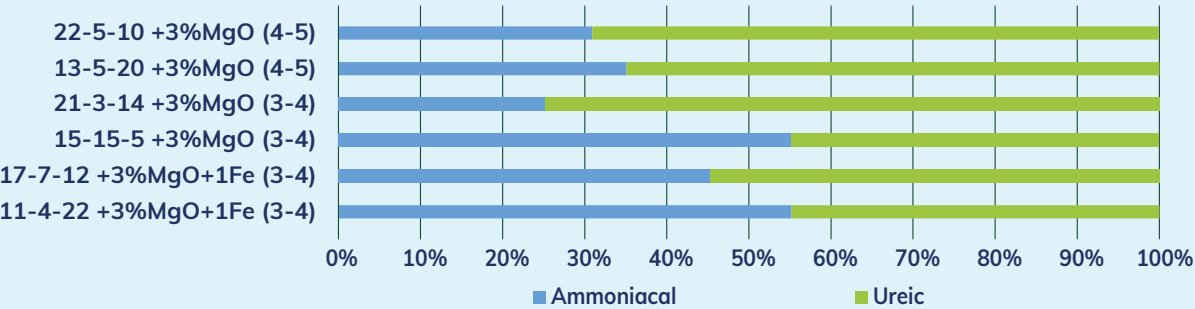


Product	Pack Size	Rate (g/m ²)	Coverage (m ²)	Longevity (weeks)	Coated N%	Usage Period (Month)											
						J	F	M	A	M	J	J	A	S	O	N	D
Reward CRF 22-5-10+3%MgO (4-5 Month)	20kg	25-35g/m ²	571-800 m ²	16-20	65%	J	F	M	A	M	J	J	A	S	O	N	D
Reward CRF 13-5-20+3%MgO (4-5 Month)	20kg	25-35g/m ²	571-800 m ²	16-20	65%	J	F	M	A	M	J	J	A	S	O	N	D
Reward CRF 21-3-14+3%MgO (3-4 Month)	20kg	25-35g/m ²	571-800 m ²	12-16	45%	J	F	M	A	M	J	J	A	S	O	N	D
Reward CRF 17-7-12+1%Fe+3%MgO (3-4 Month)	20kg	25-35g/m ²	571-800 m ²	12-16	45%	J	F	M	A	M	J	J	A	S	O	N	D
Reward 15-15-5+3%MgO (3-4 Month)	20kg	25-35g/m ²	571-800 m ²	12-16	45%	J	F	M	A	M	J	J	A	S	O	N	D
Reward CRF 11-4-22+1%Fe+3%MgO (3-4 Month)	20kg	25-35g/m ²	571-800 m ²	12-16	45%	J	F	M	A	M	J	J	A	S	O	N	D

Application rates			Application rate (Full rate)			Application rate (Half rate)		
Spreader settings	Spread width (m)	Cone setting	25 g/m ²	30 g/m ²	35 g/m ²	25 g/m ²	30 g/m ²	35 g/m ²
Accupro 2000 / SR-2000	3.2	4	O	P	Q	L 1/2	M	M 1/2

This chart is produced as a guide only.

Nitrogen Breakdown



Vision Nutri-Smart Outfield

- Methylene Urea
Slow Release
- Calcium
- NPK Formulation



Vision Nutri-Smart Outfield comprises of two analyses; a spring and summer slow release and a year round slow release. Both products are available in a homogeneous 2.5-3.9mm granule for an easy, dust-free application. This granulation ensures that every granule contains the same analysis and will provide a uniform application and result.

Benefits:

- All contain balanced NPK formulations
- Contain methylene urea slow release technology
- Extended nitrogen release of up to 3 months
- Reliable and uniform performance
- Will produce a good colour with rapid nutrient uptake
- Dust-free uniform granulation for an accurate application

Nutri-Smart 16-4-10+2%Fe+3.1%CaO+MU

- A slow release fertiliser for sustained uniform growth without any growth flushes; provides an extended release of up to three months
- Added iron ensures optimal turf colour
- An economical balanced NPK slow release fertiliser
- Ideal for use during the main growing season



Nutrient applied at
35g/m² N-56 P-14 K-35 kg/ha

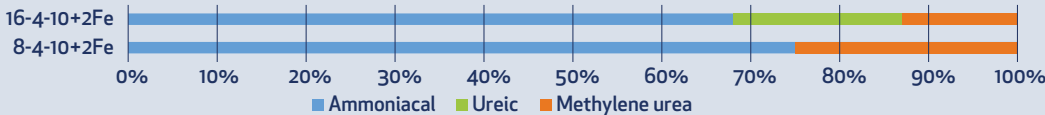
Nutri-Smart 8-4-10+2%Fe+8%CaO+MU

- A year round slow release fertiliser which provides an extended release of up to three months
- Added iron to harden the plant and provide good colour
- Balanced NPK formulation to aid recovery
- Quality uniform granule will ensure a quick plant response without excess growth



Nutrient applied at
35g/m² N-28 P-14 K-35

Nitrogen Breakdown



Product	Pack Size	Rate (g/m ²)	Coverage (m ²)	Longevity (weeks)	Usage Period (Month)											
Nutri-Smart 16-4-10+2%Fe+3.1%CaO+MU	20kg	35g/m ²	571 m ²	10-12	J	F	M	A	M	J	J	A	S	O	N	D
Nutri-Smart 8-4-10+2%Fe+8%CaO+MU	20kg	35g/m ²	571 m ²	10-12	J	F	M	A	M	J	J	A	S	O	N	D

Application rates			Application rate (Full rate)	Application rate (Half rate)
Spreader settings	Spread width (m)	Cone setting	35 g/m ²	35 g/m ²
Accupro 2000 / SR-2000	3.5	4	P 1/2	M 1/2
En-N-Spred Range	3.5	-	24.5	21.5

This chart is produced as a guide only.

Terralift Sportsgrass Outfield

Sportsgrass has a strong reputation for holding colour and thickening the sward where standard fertilisers fail to sustain grasses through heavy play.

Sportsgrass granulars are multipurpose fertilisers suitable for all turf areas including sportsgrounds, 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.

Benefits:

- Increase grass rooting and density
- Hold on to grass on ball landing areas and approaches
- Maintain colour and cover
- Reduce wear on green-to-tee tracking
- Improve grass and moisture retention on mounds and exposed “thin” soil sites
- Ideal for use during new construction and turf renovation

Terralift Sportsgrass 6-2-8

- Ideal for use during new construction and turf renovation
- Improved growth without excessive top growth
- Thickened sward density
- Feeds the rootzone to develop strong root systems

Nutrient applied at
35g/m² N-21 P-7 K-28 kg/ha



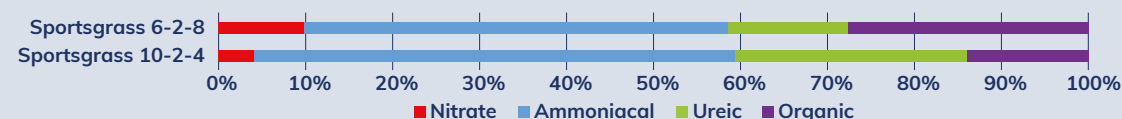
Terralift Sportsgrass 10-2-4

- Use for kick and colour at key times throughout 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 rootzones

Nutrient applied at
35g/m² N-35 P-7 K-14 kg/ha



Nitrogen Breakdown

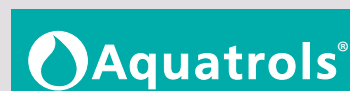


Product	Pack Size	Rate (g/m ²)	Coverage (m ²)	Longevity (weeks)	Usage Period (Month)
Terralift Sportsgrass 6-2-8	20kg	30-60g/m ²	333-666 m ²	8-12	J F M A M J J A S O N D
Terralift Sportsgrass 10-2-4	20kg	30-60g/m ²	333-666 m ²	8-12	J F M A M J J A S O N D

Application rates			Application rate (Full rate)	
Spreader settings	Spread width (m)	Cone setting	20 g/m ²	30 g/m ²
Accupro 2000 / SR-2000	2.5	7	Q	S

This chart is produced as a guide only.

Partner Brands



ICL Sportsmaster CRF Mini Outfield



A combination of controlled release fertiliser technology with compound granular fertiliser.

This controlled release technology leads to regular growth without growth peaks. The uncoated portion of this fertiliser allows immediate response from the turf. The range is designed for use on tees, fairways, sportsfields, lawns and amenity turf.

Poly-S Technology

The nutrient release is primed by moisture permeating through the outer polymer channels, through micro-channels in the sulphur layer and into the nutrient core where the urea is solubilised. It then travels back through the same pathways where it is released and made available for plant uptake.

Polyhalite

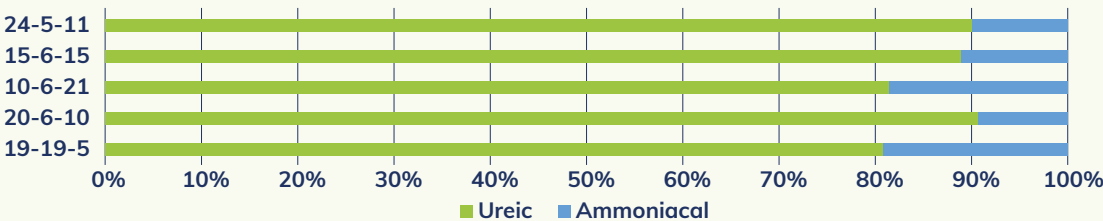
Polyhalite is now a component part of the CRF Mini range. Polyhalite is a naturally occurring mineral fertiliser containing potassium, magnesium and calcium. The addition will result in improved turf colour, turf quality and growth rates. Polyhalite contains a minimum of 14% K₂O, 6% MgO and 17% CaO.

*Note that Start 19-19-5 does not contain Polyhalite.

Benefits:

- 1.0-2.5mm high quality granule for easy application
- Nutrients released over a 3 month period so less applications required
- Controlled release Poly-S nitrogen included in the blend
- Polyhalite included for enhanced performance and colour
- Highest ICL coated slow release fertiliser including Polyhalite
- A high quality economical slow release fertiliser
- Extremely safe to use due to controlled nutrient and low salt index above 6mm

Nitrogen Breakdown



High N 24-5-11+3%CaO

- Ideal first controlled release fertiliser application of the season
- Specially selected technology for quick reaction in cooler conditions
- Encourages healthy balanced growth at the start of the season
- Contains 42% coated nitrogen

Nutrient applied at
30g/m² N-72 P-15 K-33 kg/ha



Active 15-6-15+6&CaO+2%MgO

- Ideal for pre-stress conditioning
- Magnesium content will enhance colour
- Good growing season analysis
- Contains 41% coated nitrogen

Nutrient applied at
30g/m² N-45 P-15 K-45 kg/ha



Stress Control 10-6-21+7%CaO+2%MgO

- Designed to sustain turf health during autumn, winter and early spring
- Controlled release nitrogen only releases in conditions favourable to turf grass growth, helping aid recovery after periods of stress
- High potassium content strengthens cell walls and aids water regulation in the plant
- Contains 41% coated nitrogen

Nutrient applied at
30g/m² N-30 P-15 K-63 kg/ha



Spring Starter 20-6-10+6%CaO+2%MgO

- Ideal for use and early season boost
- Will sustain turf health through the growing season
- Will provide good turf colour
- Contains 43% coated nitrogen

Nutrient applied at
30g/m² N-60 P-15 K-30 kg/ha



Start 19-19-5+2%MgO+Te*

- Ideal for use when over-seeding or laying new turf
- High phosphate promotes strong root growth
- Trace elements for enhanced turf health
- Contains 42% coated nitrogen

Nutrient applied at
30g/m² N-57 P-57 K-15 kg/ha



Product	Pack Size	Rate (g/m ²)	Coverage (m ²)	Longevity (weeks)	Usage Period (Month)											
High N 24-5-11+3%CaO	25kg	20-35g/m ²	714-1,250 m ²	8-12	J	F	M	A	M	J	J	A	S	O	N	D
Active 15-6-15+6&CaO+2%MgO	25kg	20-35g/m ²	714-1,250 m ²	8-12	J	F	M	A	M	J	J	A	S	O	N	D
Stress Control 10-6-21+7%CaO+2%MgO	25kg	20-35g/m ²	714-1,250 m ²	8-12	J	F	M	A	M	J	J	A	S	O	N	D
Spring Starter 20-6-10+6%CaO+2%MgO	25kg	20-35g/m ²	714-1,250 m ²	8-12	J	F	M	A	M	J	J	A	S	O	N	D
Start 19-19-5+2%MgO+Te*	25kg	20-35g/m ²	714-1,250 m ²	8-12	J	F	M	A	M	J	J	A	S	O	N	D

Application rates			Application rate (Full rate)	Application rate (Half rate)
Spreader settings	Spread width (m)	Cone setting	30 g/m ²	30 g/m ²
Accupro 2000 / SR-2000	5	3	S ¹ / ₂	P

This chart is produced as a guide only.

We also supply the ICL range of products, contact us for more details



Landscape Fertilisers



We also supply other horticultural and landscaping products

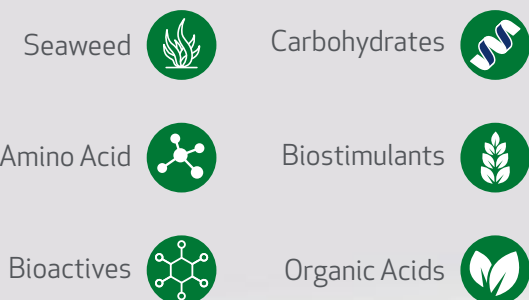
Please contact us for the full range. Growmore, Rose Food, Bark, Composts, Mulches Etc.

Straight / Organic Fertiliser

- | | |
|-------------------------|---|
| • Dried Blood | 12% Nitrogen |
| • Hoof & Horn | 13% Nitrogen |
| • Bone Meal | 4% Nitrogen & 20% Phosphate |
| • Fish, Blood & Bone | 5.1% Nitrogen, 5% Phosphate & 6.5% Potassium |
| • Magnesium Limestone | Dolomite |
| • Sulphate Of Ammonia | 21% Nitrogen |
| • Sulphate Of Iron | 20-26% Ferrous Sulphate |
| • Sulphate Of Magnesium | Epsom Salts |
| • Sulphate Of Potash | Potassium Oxide (K ₂ O) S/W 50% (41.5%K) |
| • Superphosphate | 15% Phosphate |
| • Nitrochalk | |

The above analysis are provided as a typical guide to nutrient levels.

Vision Ultimax SL Liquid Fertiliser



A new generation of highly concentrated bioactive seaweed liquids which help the turf plant in a variety of ways.

A range of the highest quality seaweed extracts from *Ascophyllum Nodosum*, harvested from the pristine Atlantic Ocean just off South West Ireland. This seaweed is full of natural sustainable organic compounds, which help turf plants in a variety of ways.

This next generation of biostimulants are smarter, more efficient and bioactive; utilising the latest molecular tools and strategies, including DNA sequencing. This manufacturing process monitors plant- biostimulant interaction under normal and adverse growth conditions to deliver next generation performance. Put simply, our manufacturer has developed a technology akin to biological software that upgrades a plant's natural responses to specific climatic/growth challenges.

The Ultimax-SL Liquid uses a mild alkaline hydrolysis to release the most "bioactives", these bioactives are the result of long chain sugars (alginates) being transformed into shorter more active sugars / elicitors (Oligosaccharides). Academic and peer reviewed research points to these eliciting Oligosaccharides (short chain sugars) as being the true bioactives responsible for growth and stress tolerances, unlike cold extracts these bioactives are found in abundance in our proprietary extraction process.

Oligosaccharides act as a switch by turning on a turf grass's natural metabolic and defence process, producing a healthier turf enabling it to tolerate and recover from stresses such as drought, salinity, frost etc.

The extraction process turns inhibiting polyphenols, into beneficial humic acid biostimulants. Unlike the cold process seaweed extracts which can contain high levels of polyphenols which are not broken down and can inhibit germination and plant growth.

The main advantage in Ultimax-SL Liquids is that the extract is more soluble and are much higher concentration. The seaweed molecules are converted into much smaller highly soluble biomolecules (which do not block nozzles) when compared to other seaweed liquids on the market today. Having more of these more abundant biomolecules ensures that the product is much more concentrated and will provide more benefits from a smaller amount of product.

Benefits:

- Premium 100% selected *Ascophyllum nodosum* extract
- The next generation of high concentration seaweed biostimulants
- High concentration of Bioactives, which provide all the benefits
- Increased Bioactives v competitor products
- Higher levels of Bioactives, humic acids and biostimulants than cold extraction seaweeds
- Oligosaccharides switch on the turf grass's natural metabolic and defence processes
- Stimulates healthy turf throughout the season
- Promotes a healthier soil biology and aids a quicker break down of organic matter
- Increases rooting and fertiliser uptake
- Increased turf colour without excess growth
- Natural gibberellins and auxins stimulate deep rooting and compact growth
- Will increase the plants metabolism and photosynthesis
- Betains thicken and strengthen cell walls increasing wear and drought tolerance
- Natural source of trace elements
- Improved turfgrass health, leading to increased disease resistance
- High concentrated seaweed extracts can help alleviate the symptoms of nematode damage

Ultimax-SL Pure Concentrate

- A 40% pure natural liquid seaweed concentrate
- High concentration of Bioactives
- Extremely high in trace elements, plant growth stimulants & amino acids
- Stimulates lateral tillering creating a thicker sward
- Increased microbial activity, improved rooting & stress tolerance



Nutrient applied at
6L / Ha N-0 P-0 K-0.4 kg/ha

Ultimax-SL Tournament

- A 7%Fe Ideal for pre-tournament preparation
- Green-up within 24 hours without soft growth
- Active during periods of low soil temperatures
- Conditions turf, improve disease tolerance and encourage deeper rooting
- Source of trace elements and plant growth stimulants



Nutrient applied at
45L / Ha N-0 P-0 K-0.1 kg/ha

Ultimax-SL Fortify

- A 0-3-8 to fortify the plant against stress at key periods of the year
- Readily available source of potassium phosphite
- Phosphite stimulate healthy growth & support the plant's natural defences
- Increased root and shoot growth from this available form of phosphate
- 14-18% Bioactives improve soil biology & microbial populations



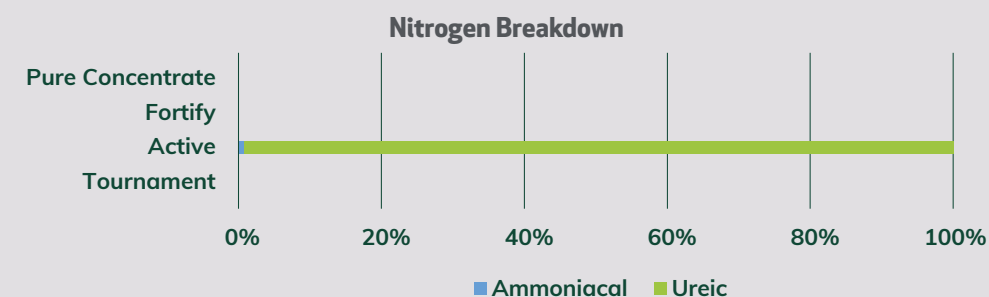
Nutrient applied at
45L / Ha N-0 P-1.3 K-3.6 kg/ha

Ultimax-SL Active

- A 12-0-10+1%Fe ideal for use during active growth periods
- Zero phosphate analysis with added iron
- Improves tillering without growth flushes
- Stimulates healthy turf throughout season with sustained colour response
- Contains Bioactives to help condition for in-season stress periods



Nutrient applied at
45L / Ha N-5.4 P-0 K-4.5 kg/ha



Product	Pack Size	Small Sprayer Treating 100m ²	Powered Sprayer Treating 10,000m ²	Coverage (m ²)	Usage Period (Month)											
					J	F	M	A	M	J	J	A	S	O	N	D
Ultimax-SL Pure Concentrate	10L	60ml in 5-10L water	6L in 500- 1,000L water	16,666 m ²	J	F	M	A	M	J	J	A	S	O	N	D
Ultimax-SL Fortify	10L	450ml in 5-10L water	45L in 500- 1,000L water	2,222 m ²	J	F	M	A	M	J	J	A	S	O	N	D
Ultimax-SL Active	10L	450ml in 5-10L water	45L in 500- 1,000L water	2,222 m ²	J	F	M	A	M	J	J	A	S	O	N	D
Ultimax-SL Tournament	10L	450ml in 5-10L water	45L in 500- 1,000L water	2,222 m ²	J	F	M	A	M	J	J	A	S	O	N	D

Ultimax SL Nozzle Guide	Hypro Nozzles				Hardi Nozzles			
	Medium	Flat fan	White	F110-08	Flat fan	Medium	Brown	FF05 110
Power Sprayer								
Knapsack (boom)	Coarse	Flat fan	Red	F80-04	Flat fan	Medium	Red	04 E80
Knapsack (single jet)	Medium / Coarse	Flood jet	White	DT 4.0	Flood jet	Coarse	Red	AN 2.4

This chart is produced as a guide only.

Vision Integral Turf Conditioner

Carbon **C**Calcium **Ca**Carbohydrates **C**Magnesium **Mg**Leaf Spreader, Sticker & Penetrant **SSP**

A range of specially formulated all-in-one turf conditioners and recovery agents designed to promote plant health, alleviate stress conditions and stimulate recovery of the plant.

This range of three liquids should be an integral part of any turf maintenance programme. The range contains a range of trace elements, surfactants, biostimulants and amino acids to provide a resilient healthy plant.

Integral will help thicken the turfgrass sward and the carbohydrates will encourage tillering rather than top growth. Iron and magnesium will ensure a strong colour response while the surfactants will aid leaf penetration and sticking allowing for low application rates.

The calcium, iron and trace elements will help strengthen and harden the plant including the cell wall making this range of products ideal for year-round use as long as no snow or frost is present.

These products are ideal for use on greens, stadiums, fairways, sportsfields and lawns.

Stress relief biostimulants

Integral liquids contain naturally derived simple carbohydrates, which can be utilised directly by the plant or by the soil micro-organisms

These short chain carbohydrates (glucose, sucrose, & fructose) are ideal for foliar feeding. When the plant is under considerable amounts of stress it cannot produce enough carbohydrates itself to meet demands. Integral

liquids contain a source of carbohydrates to provide an immediate energy source for the plant to relieve stress symptoms.

In addition, carbohydrates are an important carbon and energy source for soil microorganisms, this can stimulate microbial activities in the rhizosphere, which accelerates soil organic matter decomposition, leading to mobilization of nutrients quickly available to the plant.

Benefits:

- Will promote plant health and alleviate turf stress
- Contains spreading and leaf penetrant agents which enhance leaf penetration and leaf coverage
- Trace elements added for improving turf colour and health and assists the plants physiological process
- Carbohydrates for an immediate source of energy to the plant and will encourage rooting
- Complexed iron to increase chlorophyll content
- Use as part of an Integral turf maintenance programme
- Will help thicken turf without excessive top growth
- Provides a healthy green colour response
- Ideal for use in areas of wear and tear
- Can be used year round

Integral Max

- A 9% Nitrogen formulation for year-round use
- Ideal for pitch or tournament presentation at 40L/Ha
- Will help thicken turf without excessive top growth
- This product is ideal for stadiums where maximum colour is required

Nutrient applied at
40L / Ha N-4.5 P-0 K-0 kg/ha



Integral Turf

- A 5% Nitrogen formulation for use throughout the year
- Contains Iron and trace elements to improve turf colour
- Trace elements and carbohydrates will produce healthier turf
- Ideal to help precondition turf going into winter or use year round

Nutrient applied at
40L / Ha N-2.5 P-0 K-0 kg/ha



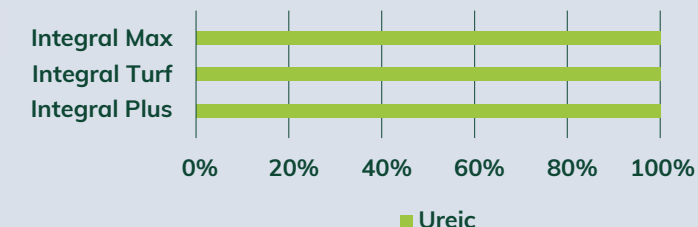
Integral Plus

- A 12% Nitrogen formulation for use during the growing season
- Ideal when the turf is actively growing and requires additional nitrogen between fertiliser applications
- Provides a healthy turf with quicker recovery from wear and tear
- Iron and magnesium will provide a healthy turf colour

Nutrient applied at
40L / Ha N-6 P-0 K-0 kg/ha



Nitrogen Breakdown



Product	Pack Size	Small Sprayer Treating 100m ²	Powered Sprayer Treating 10,000m ²	Coverage (m ²)	Usage Period (Month)											
Integral Max	10L/200L	100 - 400ml in 5-10L water	10 - 40L in 500L water	2,500 - 10,000 m ²	J	F	M	A	M	J	J	A	S	O	N	D
Integral Turf	10L/200L	100 - 400ml in 5-10L water	10 - 40L in 500L water	2,500 - 10,000 m ²	J	F	M	A	M	J	J	A	S	O	N	D
Integral Plus	10L/200L	100 - 400ml in 5-10L water	10 - 40L in 500L water	2,500 - 10,000 m ²	J	F	M	A	M	J	J	A	S	O	N	D

Integral Nozzle Guide	Hypro Nozzles				Hardi Nozzles			
Power Sprayer	Medium	Flat Fan	Brown	F110-05	Medium	Flat Fan	Brown	FF05 110
Knapsack (boom)	Coarse	Flat Fan	Red	F80-04	Medium	Flat Fan	Red	04 EBO
Knapsack (single jet)	Medium / Coarse	Flood jet	White	DT 4.0	Coarse	Flood jet	Red	AN 2.4

This chart is produced as a guide only.



Vision Nutri-Smart Liquid Fertiliser



Nutri-Smart Liquid is a range of advanced fertiliser formulations designed for foliar uptake and root absorption.

The formulation includes a humectant package, complexing, chelating and compatibility agents. Nutrients are delivered to the plant by rapid foliar and root absorption. By applying in low water volumes the adjuvants and small molecular structure enables the nutrients to be taken up by the leaf. Applying in higher water volumes the nutrient is taken past the leaf to the rootzone where the nutrients can be taken up by the plants roots.

Benefits:-

- Rapid response with leaf and root uptake
- Optimal molecular size and structure allows more nutrients to be available longer
- Contains humectant to improve uptake in the summer months
- Increased chlorophyll concentration leading to improved photosynthesis
- Contains all necessary trace elements for healthy turf
- Encourages deeper, healthier rooting
- Will not produce flushed growth when applied
- Highly compatible with other turf management products

Humectant

Nutri-Smart Liquids have been designed with the inclusion of humectant technology. Unlike conventional foliar fertilisers, Nutri-Smart Liquids resist drying even after the aqueous spray solution has evaporated under high climatic conditions.

This is achieved as the humectant polymers are hydroscopic (water absorbing), which keeps nutrients in water soluble form by drawing enough air bound moisture to keep the nutrients available. This continues after the water within the applied foliar application has evaporated.

These nutrients are free to diffuse and penetrate leaves, which allows a stable and constant release of nutrient to the plant.

- Improves uptake under hot, dry conditions, or when the spray solution has dried
- A surface acting polymer which allows excellent spread ability on the leaf, which allows for complete coverage
- More effective than traditional foliar fertilizers
- Improves rain fastness

Biostimulant and Amino Acids Package

Nutri-Smart Liquids contain naturally derived simple carbohydrates. These short chain carbohydrates (glucose, sucrose, & fructose) are ideal for foliar feeding. When the plant is under considerable amounts of stress it cannot produce enough carbohydrates itself to meet demands.

Nutri-Smart Liquids provide a source of carbohydrates to provide immediate energy source for the plant to relieve stress symptoms.

Trace Element Package (Te)

Trace elements provide the plant with a range of important micro nutrients which, help overcome any deficiencies found within the plant and increases the plants health e.g. root production and leaf strength.

The comprehensive EDTA trace element package within Nutri-Smart Liquids contains Boron, Copper, Iron, Manganese, Molybdenum and Zinc.

Complexing, Chelating and Compatibility Agents

Nutri-Smart Liquids contain organic facilitators, natural complexing and chelating agent, which ensures that nutrients are more available for uptake and translocation by the plant.

Nutri-Smart Liquids compatibility agent ensures efficient uptake and produces stable complexes over a wide pH range. This makes the Ideal tank mix partner with other turf management products.

Nutri-Smart Liquid 25-0-0+Te

- Provides a rapid green up
- Nitrogen only formulation, that can be tank mixed with other analysis
- Flexibility of application rates



Nutri-Smart Liquid 12-0-12+Te

- Increased absorption and transportation of nutrients within the plant
- Amino acids and biostimulant package provide immediate energy source for the plant to relieve stress symptoms
- Contains all necessary trace elements for healthy turf



Nutri-Smart Liquid 16-3-6+Te

- An ideal balanced NPK fertiliser for use during the growing season
- Added phosphate provides increased root growth and a stronger leaf ensuring healthier grass
- Improved uptake of the nutrients during hot and dry conditions



Nutri-Smart Liquid 4-4-10+Te

- Trace elements including manganese and copper will help strengthen the plant resistance to seasonal pressures
- Encourages seed germination and root growth
- High potassium will help harden the plant



Nutri-Smart Armour 0-22-15

- Designed to strengthen turf grass by increasing resistance during periods of high environmental stress and pathogenic pressure
- A hybrid of potassium phosphite, biostimulant, spreading, complexing and sticking agents
- Can be implemented into an integrated disease management programme.
- Ideal to use with Vision Reflex Guard to strengthen the overall disease management strategy
- Improves rooting development with added humic acid

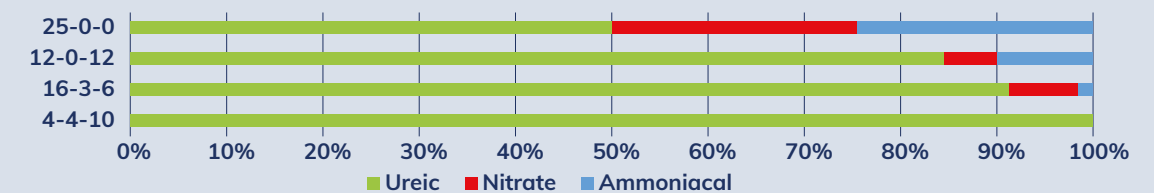


Nutri-Smart Arrow (Silica)

- Increase ball roll and green speed
- Promotes vertical growth for improved cutting of uneven spring growth
- Assists the removal of annual meadow grass seed heads
- Ideal for tournament preparation, spray two to four days before start date for maximum results



Nitrogen Breakdown



Vision Nutri-Smart Liquid Fertiliser



Vision range of premium liquid products include:-

- * Liquid fertilisers
- * Wetting agents
- * Turf conditioners
- * Dew dispersant
- * Liquid irons
- * Spray enhancer
- * Hard surface cleaner

	Nutrient applied at recommended application rate (Kg/Ha)														
	Nutri-Smart 12.0.12			Nutri-Smart 4.4.10			Nutri-Smart 25.0.0			Nutri-Smart 16.3.6			Nutri-Smart Armour		
	N	P	K	N	P	K	N	P	K	N	P	K	N	P	K
10 Lts Per Ha	1.45	0.00	1.45	0.48	0.48	1.21	3.03	0.00	0.00	1.94	0.36	0.73	0.00	2.2	1.5
20Lts Per Ha	2.90	0.00	2.90	0.97	0.97	2.42	6.05	0.00	0.00	3.87	0.73	1.45	-	-	-
30 Lts Per Ha	4.36	0.00	4.36	1.45	1.45	3.63	9.08	0.00	0.00	5.81	1.09	2.18	-	-	-
40 Lts Per Ha	5.81	0.00	5.81	1.94	1.94	4.84	12.10	0.00	0.00	7.74	1.45	2.90	-	-	-
50 Lts Per Ha	7.26	0.00	7.26	2.42	2.42	6.05	15.13	0.00	0.00	9.68	1.82	3.63	-	-	-
60 Lts Per Ha	8.71	0.00	8.71	2.90	2.90	7.26	18.15	0.00	0.00	11.62	2.18	4.36	-	-	-
70 Lts Per Ha	10.16	0.00	10.16	3.39	3.39	8.47	21.18	0.00	0.00	13.55	2.54	5.08	-	-	-
80 Lts Per Ha	11.62	0.00	11.62	3.87	3.87	9.68	24.20	0.00	0.00	15.49	2.90	5.81	-	-	-
90 Lts Per Ha	13.07	0.00	13.07	4.36	4.36	10.89	27.23	0.00	0.00	17.42	3.27	6.53	-	-	-
100 Lts Per Ha	14.52	0.00	14.52	4.84	4.84	12.10	30.25	0.00	0.00	19.36	3.63	7.26	-	-	-

Product	Pack Size	Foliar application	Root drench application	Coverage (m²)		Usage Period (Month)											
25-0-0+Te	10L/ 200L / 800L / 1000L	20-60L per Ha in 300-500L Water	40-100L per Ha in 600-900L Water	Foliar uptake 1666-5000m²	Root uptake 1000-2500m²	J	F	M	A	M	J	J	A	S	O	N	D
12-0-12+Te	10L/ 200L / 800L / 1000L	20-60L per Ha in 300-500L Water	40-100L per Ha in 600-900L Water	Foliar uptake 1666-5000m²	Root uptake 1000-2500m²	J	F	M	A	M	J	J	A	S	O	N	D
16-3-6+Te	10L/ 200L / 800L / 1000L	20-60L per Ha in 300-500L Water	40-100L per Ha in 600-900L Water	Foliar uptake 1666-5000m²	Root uptake 1000-2500m²	J	F	M	A	M	J	J	A	S	O	N	D
4-4-10+Te	10L/ 200L / 800L / 1000L	20-60L per Ha in 300-500L Water	40-100L per Ha in 600-900L Water	Foliar uptake 1666-5000m²	Root uptake 1000-2500m²	J	F	M	A	M	J	J	A	S	O	N	D

Product	Pack Size	Small Sprayer Treating 100m²	Powered Sprayer Treating 10,000m²	Coverage (m²)	Usage Period (Month)											
Amour	5L	50-100ml in 3-5L water	5-10L in 300-500L	5,000 - 10,000 m²	J	F	M	A	M	J	J	A	S	O	N	D
Arrow (Silica)	5L	100ml in 5L water	10L in 500L water	5,000 m²	J	F	M	A	M	J	J	A	S	O	N	D

NutriSmart Liquid Nozzle Guide	Hypro Nozzles				Hardi Nozzles			
Power Sprayer	Medium	Flat fan	White	F110-08	Flat fan	Medium	Brown	FF05 110
Knapsack (boom)	Coarse	Flat fan	Red	F80-04	Flat fan	Medium	Red	04 E80
Knapsack (single jet)	Medium / Coarse	Flood jet	White	DT 4.0	Flood jet	Coarse	Red	AN 2.4

This chart is produced as a guide only.



Available exclusively from Aitkens

Aitkens Liquid Fertiliser



Aitkens Liquid Ammonium Sulphate Liquid 10-0-0

- A fertiliser used for its acidifying effect
- Suited to fescues and bents which like a lower pH
- Will help discourage annual meadow grass
- Ideal for use with the "Disturbance Theory" regime



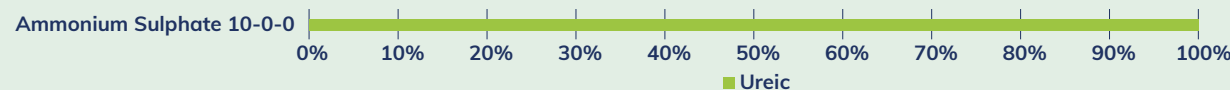
Aitkens Liquid Sulphate Of Iron (7%Fe)

- An economical liquid iron
- Designed for use on large areas
- Will help acidify the soil
- Easy to mix



Nutrient applied at
30L / Ha N-3 P-0 K-0 kg/ha

Nitrogen Breakdown



Product	Pack Size	Application rate for inland courses	Application rate for links courses	Coverage (m²)	Usage Period (Month)											
Ammonium Sulphate Liquid 10-0-0	20L / 200L	40-60L in 700L water	30-40L in 700L water	20L: 3,333-6,666m²	J	F	M	A	M	J	J	A	S	O	N	D

Product	Pack Size	Small Sprayer Treating 100m²	Powered Sprayer Treating 10,000m²	Coverage (m²)	Usage Period (Month)											
Sulphate of Iron 10-0-0	20L / 200L	200ml in 7L water	20L in 700L water	20L: 10,000m²	J	F	M	A	M	J	J	A	S	O	N	D

Aitkens Liquid Fertiliser Nozzle Guide		Hypro Nozzles				Hardi Nozzles			
Power Sprayer		Medium	Flat fan	White	F110-08	Flat fan	Medium	Brown	FF05 110
Knapsack (boom)		Coarse	Flat fan	Red	F80-04	Flat fan	Medium	Red	04 E80
Knapsack (single jet)		Medium / Coarse	Flood jet	White	DT 4.0	Flood jet	Coarse	Red	AN 2.4

This chart is produced as a guide only.

Terralift Liquid Fertiliser



A range which includes the TCL complex liquid which are the most advance liquid bio conversion system currently available on the market. They will enhance the plants metabolic activity and contain valuable concentrations of minerals, enzymes and nutrients.

TCL Advance 18-2-2

- Ideal supplement to a low soil N fertiliser programme
- 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



Nutrient applied at
40L / Ha N-9.36 P-1.04 K-1.04 kg/ha

Product	Pack Size	Small Sprayer Treating 100m²	Powered Sprayer Treating 10,000m²	Coverage (m²)	Usage Period (Month)											
TCL Advance 18-2-2	10L	200-400ml in 1-2+ L water	20-40L in 100-200+ L water	10L: 2,500-5,000m²	J	F	M	A	M	J	J	A	S	O	N	D
TCL Strength 0-0-15	10L	200ml in 1+ L water	20L in 100+ L water	10L: 5,000m²	J	F	M	A	M	J	J	A	S	O	N	D

TCL Strength 0-0-15

- 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



Nutrient applied at
20L/ha N-0 P-0 K-4.2 kg/ha

ICL Sportsmaster Water Soluble Fertiliser

The WSF range contains T-max to enhance nutrient uptake. The foliar and root uptake gives a rapid response that is then sustained for a number of weeks.

The wide range of analyses are designed for use throughout the year. This range is ideal for treatment of large areas, especially golf fairways.



High N 35-0-14

- Potassium nitrate and urea based for a quick response
- Good levels of potassium for stronger turf
- Cost effective for large areas



Nutrient applied at
30g/m² N-10.5 P-0 K-4.2 kg/ha

High K 15-0-43+Fe

- Mainly nitrate based with a small amount of urea nitrogen
- Contains 0.13% iron to aid green-up
- High potassium levels to help turf hardening
- Zero phosphate analysis



Nutrient applied at
30kg / Ha N-4.5 P-0 K-12.9 kg/ha

Spring & Summer 28-5-19

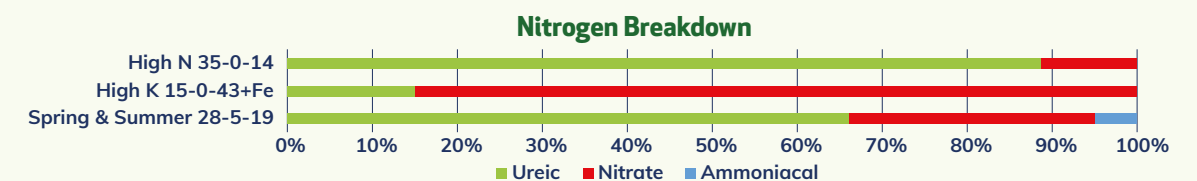
- Nitrogen boost with potassium
- Contains trace elements
- Balanced NPK fertiliser
- Ideal for use during the main growing season



Nutrient applied at
30kg / Ha N-8.4 P-1.5 K-5.7 kg/ha

We also offer other water soluble products such as:-

- Urea
- Sulphate of ammonia
- Potassium nitrate
- Iron



Product	Pack Size	Application Rate	Coverage (m ²)	Usage Period (Month)									
High N 35-0-14	15kg	15-60 kg/ha in 300-1,000L water	2,500-10,000m ²	J	F	M	A	M	J	J	A	S	O
High K 15-0-43+Fe	15kg	15-60 kg/ha in 300-1,000L water	2,500-10,000m ²	J	F	M	A	M	J	J	A	S	O
Spring & Summer 28-5-19	15kg	15-60 kg/ha in 300-1,000L water	2,500-10,000m ²	J	F	M	A	M	J	J	A	S	O

Aquatrols Liquid Fertiliser



Aquatrols have a range of liquid fertilisers that have been used in the industry over many years.

The range includes a full line of nutritional products to improve plant functions and strengthen turf's natural defences against stress and disease.

Benefits:-

- Will improve the plants functions
- Help strengthen the plant during periods of stress
- Flexible application rates

Attain

- Bio-nutritional liquid extract with liquid organic and kelp
- Promotes optimal plant growth for all soil types
- Improved presentation with minimal inputs (1Kg N and 0.4Kg Fe / Ha)
- Extended longevity

Nutrient applied at
10L / Ha N-1 P-0 K-0 kg/ha



CalSea Extra

- Strengthens cell walls in stems, roots and leaves
- Fast, effective plant absorption
- Improves photosynthesis of the plant
- 70:30 leaf:root uptake

Nutrient applied at
30L / Ha N-2.7 P-0 K-0 kg/ha



Premium K 0-0-38

- Ideal Autumn feed that hardens turf
- Formulated specifically for turf
- Easy to target applications at problem areas
- Easy accurate spray application

Nutrient applied at
10L / Ha N-0 P-0 K-11.4 kg/ha



Premium N 35-0-0

- A slow release methylene urea nitrogen fertiliser
- Encourages greater root mass and more vigorous plant health
- High nitrogen analysis
- 16.5% N is slow release, 11.5% ureic nitrogen

Nutrient applied at
50L / Ha N-17.5 P-0 K-0 kg/ha



Product	Pack Size	Small Sprayer Application Rate	Power Sprayer Application Rate	Coverage (m²)	Usage Period (Month)									
					J	F	M	A	M	J	J	A	S	O
Attain	10L/110L	10ml in 6L water	10L in 300-600L water	10L: 10,000m² / 110L: 110,000m²	J	F	M	A	M	J	J	A	S	O
CalSea Extra	10L	30-50ml in 6L water	30-50L in 400-600L water	2,000-3,333m²	J	F	M	A	M	J	J	A	S	O
Premium K 0-0-38	10L	10-50ml in 6L water	10-50L in 600L water	2,000-10,000m²	J	F	M	A	M	J	J	A	S	O
Premium N 35-0-0	10L	20-50ml in 6L water	20-50L per Ha in 100-250L water	2,500-6,250m²	J	F	M	A	M	J	J	A	S	O

Vision Biostimulants & Soil Improvers

We have a wide range of unique products designed to help improve the soil and how the plant works.

These products in addition to standard nutrition are vital to ensure the plant is at its optimum to cope with the stresses of play.

Ultimax-SL Pure Concentrate

A very highly concentrated seaweed extract that has nothing added it is just a pure seaweed. This formulation due to its concentration carries more bioactives and oligosaccharides than many of its competitors allowing for lower application rates. This in turn sees this formulation provide better plant responses and is a firm favourite in the Ultimax-SL range.

- A 40% pure natural liquid seaweed concentrate
- High concentration of Bioactives
- Extremely high in trace elements, plant growth stimulants & amino acids
- Stimulates lateral tillering creating a thicker sward
- Increased microbial activity, improved rooting & stress tolerance

Nutrient applied at
6L / Ha N-0 P-0 K-0.4 kg/ha



Product	Pack Size	Small Sprayer Treating 100m ²	Powered Sprayer Treating 10,000m ²	Coverage (m ²)	Usage Period (Month)
Ultimax-SL Pure Concentrate	10L	60ml in 5-10L water	6L in 500-1,000L water	16,666 m ²	J F M A M J J A S O N D

Ultimax SL Nozzle Guide	Hypro Nozzles				Hardi Nozzles			
Power Sprayer	Medium	Flat fan	White	F110-08	Flat fan	Medium	Brown	FF05 110
Knapsack (boom)	Coarse	Flat fan	Red	F80-04	Flat fan	Medium	Red	04 E80
Knapsack (single jet)	Medium / Coarse	Flood jet	White	DT 4.0	Flood jet	Coarse	Red	AN 2.4

This chart is produced as a guide only.

Terralift Biostimulants & Soil Improver Range

Terralift Rocastem

Aeration of the rootzone is essential for better and more consistent playing surfaces. While traditional mechanical actions help, it's worth remembering that coring only targets around 3% of the rootzone with each pass. Rocastem works at microscopic level to hit and help the 90% of the rootzone you won't get mechanically, adding real value to all your mechanical aeration activities throughout the year. Rocastem is best applied as a programme of 4 to 5 treatments.

Terralift Rocastem

- A liquid aerator and root stimulator designed to help the 90% of the rootzone you miss with mechanical aeration
- Firms turf surfaces and opens soils to clear toxic rootzone gas build up
- Drier warmer greens into winter and earlier growth into spring
- Increases water percolation while keeping optimum moisture retention in the upper rootzone



Product	Pack Size	Application Rate	Coverage (m ²)	Usage Period (Month)
Terralift Rocastem	10L	10L / Ha in 250L+ water	10,000m ²	J F M A M J J A S O N D

Terralift T-Thatch

Cleans up thatch and invigorates the grass sward without disruption or loss of playing surface. Aids the breakdown of severe or minor thatch build-up on greens and tees. A complete treatment containing thatch eating microbes, microbe food supply and potassium to harden grass and limit top-growth during thatch breakdown.



- Improve playing surface firmness
- Re-establish nutrient and water flow to the rootzone
- Minimise disease harbour beneath the surface
- Contains decomposing enzyme solution and humus converting soil microbes

Terralift Soilmax (Humic)

Made from the top layer of an ancient humate deposit that has been weathered over the eons 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.



- 30% humic / fulvic acid solution to support grass performance
- Improve the uptake of soil solution nutrients
- Build grass resistance to sward thinning
- Build grass resilience at lower cutting heights

Terralift Rhizostem

A root development formulation containing pre-digested kelp fractions and a rhizospheric microbe population. It works by balancing nutrient uptake for slower hardier growth, increasing volume and depth in the root-mass to sustain the grass sward through heavy play periods.



- Trigger new rooting and increase rhizospheric nutrient exchange
- Increase volume and depth in the root-mass
- Lift natural disease resistance
- Improve uptake of balanced nutrition for hardier growth

Terralift Plantmax (Amino)

Contains digested seaweed and food residue extracts full of oligosaccharides, amino acids, enzymes and fulvic acids plus additional humic acid and casein protein for enhanced rhizosphere microbiology



- Contains 21% amino acids and enzymes in a 20% fulvic acid solution
- Heightens grass vigour, colour and early sward density.
- Builds stress tolerance for lower mower cutting heights and increased play
- Regulates growth in times of increased stress (close mowing, wet or dry / hot conditions)

Terralift Soilmax Plus (Humic)

A microbially developed acidifying solution (with no sulphur) for buffering high pH soils and irrigation water. It will reduce the bicarbonate level and buffer the pH of irrigation water.



- Releases insoluble calcium, potassium, boron, manganese and provide humic acid supports
- Increase water percolation and delay soil compaction
- Increase fertiliser efficiency and help hinder "Take All" development
- Ideal for use on high pH sites (above 7.0) or hard water areas

Terralift Sumastem

Sumastem's surfactant technology works to lower the surface tension of applied water and improve the wettability of the root-zone, driving water to spread horizontally before moving uniformly downward. This action is beneficial for irrigation water efficiency and optimising nutrition and efficacy of chemical treatments.



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

Terralift Soilfix

Soilfix lifts the root zone's ability to sustain turf performance by addressing key mineral shortfalls and providing organic trace elements.

Soilfix Ca/Mg

- Boosts calcium and magnesium in the base saturation
- Ideal for pH range 5.4-7.5
- 28% Calcium, 12% Magnesium, 0.3% Manganese, 0.1% Boron



Soilfix LOW pH Ca

- Contains mostly water insoluble calcium that will slowly dissolve into free calcium in acidic soils
- Best suited to low pH rootzones or where acidic irrigation water is used (<6.2pH)
- 34% Calcium, 8% Magnesium, 0.3% Manganese, 0.1% Boron



Soilfix Mg+

- Suitable on sites where magnesium is clearly deficient and/or root development is poor
- Ideal for pH range 5.0-8.0
- 17% Calcium, 21% Magnesium, 0.3% Manganese, 0.1% Boron



Soilfix HIGH pH Ca

- Ideal for high pH calcareous rootzones and where soil calcium struggles to exist in freely available amounts to best support plant health
- Contains calcium soluble in high pH soils (7.2+pH)
- 26% Calcium, 8% Magnesium, 0.3% Manganese, 0.1% Boron



Product	Pack Size	Application Rate	Coverage (m ²)	Usage Period (Month)											
Terralift T-Thatch	12L	36-48L / Ha in 230-288L+ water	2,500-3,158 m ²	J	F	M	A	M	J	J	A	S	O	N	D
Terralift Soilmax (Humic)	10L	20-30L / Ha in 200-300L+ water	3,333-5,000 m ²	J	F	M	A	M	J	J	A	S	O	N	D
Terralift Rhizostem	10L	10L / Ha in 250L+ water	10,000 m ²	J	F	M	A	M	J	J	A	S	O	N	D
Terralift Plantmax (Amino)	10L	10-30L / Ha in 100-300L+ water	3,333-10,000 m ²	J	F	M	A	M	J	J	A	S	O	N	D
Terralift Soilmax Plus (Humic)	10L	20-40L / Ha in 140-280L+ water	2,500-5,000 m ²	J	F	M	A	M	J	J	A	S	O	N	D
Terralift Sumastem	10L	20L / Ha in 600+ water	5,000 m ²	J	F	M	A	M	J	J	A	S	O	N	D

Product	Pack Size	Application Rate	Coverage (m ²)	Usage Period (Month)											
Soilfix Ca/Mg	20kg	20g/m ²	1000 m ²	J	F	M	A	M	J	J	A	S	O	N	D
Soilfix LOW pH Ca	20kg	20g/m ²	1000 m ²	J	F	M	A	M	J	J	A	S	O	N	D
Soilfix Mg+	20kg	20g/m ²	1000 m ²	J	F	M	A	M	J	J	A	S	O	N	D
Soilfix HIGH pH Ca	20kg	20g/m ²	1000 m ²	J	F	M	A	M	J	J	A	S	O	N	D

Application rates			Application rate (Full rate)	Application rate (Half rate)
Spreader settings	Spread width (m)	Cone setting	20 g/m ²	20 g/m ²
Accupro 2000 / SR-2000	2 - 2.5	7	K-L	J

This chart is produced as a guide only.

Soil Improvers Range



Energise G

A natural carbon and humic acid based granular soil conditioner that acts as an organic chelator and microbial stimulator. It's humic and fulvic acids stimulate biological activity in the soil and help soil retain water. Energise G improves fertilizer and nutrient uptake reducing requirements and cutting back leaching losses.

- Contains 50% humic acid plus good levels of trace elements
- Encourages a deeper root system by stimulating cell elongation and increasing soil pore space to enhance aeration and water percolation
- Very high levels of humic and fulvic acids stimulate biological activity in the soil
- Improves fertiliser and nutrient uptake reducing requirements and cutting back leaching losses



Biosorb

A naturally occurring mineral containing thousands of microscopic diatoms, to create a hard, durable particle resistant to breakdown. In poor draining soils Biosorb will work by increasing percolation rates and improving aeration. On free draining soils with low CEC, Biosorb retains water and nutrients in its micropore structure which enables continued growth in adverse conditions.

- Improves drainage and permeability
- Introduces non-compacting pore spaces into soil profile and reduces compaction
- Balances air and water in rootzone encouraging rooting
- Increases water and nutrient availability in sandy soils

Trucal 25

A micro-granulated (Calcium Carbonate) ground limestone that can be easily applied to help reduce the acidity of soil pH.

- Dust free micro-granule formulation (1mm nominal size)
- Helps adjust soil pH on acidic rootzones
- Contains 39.4% calcium
- Easy way of applying lime



Product	Pack Size	Application Rate (g/m²)	Coverage (m²)	Usage Period (Month)											
Energise G	22.68kg	25g/m²	907 m²	J	F	M	A	M	J	J	A	S	O	N	D
Biosorb	30L	600L per 500m² (When coring to 120mm depth)	25 m² (When coring to 120mm depth)	J	F	M	A	M	J	J	A	S	O	N	D
Trucal 25	25kg	35g/m²	714m m²	J	F	M	A	M	J	J	A	S	O	N	D

BLADE



A premium range of grass seed from the name you can trust!

Aitkens have developed the BLADE range of grass seeds in conjunction with the world's largest grass breeding and production company DLF Trifolium. This means that we can offer the very best, top-rated cultivars available.

Blade Grass Seed Range

The Blade grass seed range is a premium quality range of mixtures.

Together with the world’s largest amenity grass seed breeding and production company, we can now offer the very best, top rated varieties available.

Quality:

- Market leading cultivars from Europe’s top breeders
- New F1 seed purity, quality exceeds EC standards
- Dedicated UK amenity only mixing plant, including separate ryegrass and non-ryegrass mixers for improved purity

Fine turf characteristics selected for improved mixture performance:

- High shoot density for a true surface & reduced poa invasion
- Improved resistance to turf diseases
- Excellent summer and winter colour
- The cleanness of cut provides a true uniform surface

Medium and heavy duty mixture strengths include:

- Superior wear tolerance is standard in all mixes
- Improved resistance to turf diseases
- High shoot density for improved sward quality and reduced weed invasion
- Quick re-growth and recovery
- These mixes also provide excellent visual merit

We have always prided ourselves on quality and our technical ability. Now coupled with the world’s largest breeder and market leading cultivars we have a range that we are proud to put our name to.

Blade 1

Traditional quality greens

- An excellent traditional greens specification
- The mix has a high tolerance to close mowing
- Gives a compact, tight turf sward
- The blend of cultivars gives excellent resistance to disease



Blade 2

Premier greens mixture

- This is among the highest rated mixture for use on golf and bowling greens as rated in the turfgrass seed list
- The top rated cultivars give an exceptional tolerance to close mowing
- Year round colour shared with an excellent drought tolerance
- Outstanding shoot density which helps to reduce poa invasion



Blade 3

100% Bent overseeding mix for greens

- A fantastic bent mixture ideal for overseeding greens
- This mixture helps to reduce invasion by poa due to the high shoot density
- An excellent mix offering good year round colour and wear tolerance
- Improved disease resistance



Blade 4

The definitive fescue overseeding mixture

- For overseeding golf and bowling greens, links tees and fairways
- This mixture is ideally suited for links golf courses looking to reduce water and fertiliser inputs and employ a sustainable management program
- The combination of top rated chewings and slender creeping red fescues delivers exceptional disease



Blade 5

Sustainable Fine Tee & fairway mixture

- 100% fescue mix that includes hard & sheeps fescue
- Will help improve drought tolerance and natural disease resilience
- Ideal for links and heathland venues
- The mix combines a high visual merit with good colour in spring and autumn



Blade 6

High quality fine turf, tee renovation mixture with ryegrass

- High quality tee & fairway renovation mixture
- Suitable for heavily worn golf and bowling greens.
- The dwarf fine leaved perennial ryegrass gives fast establishment
- Exceptional wear tolerance & excellent recovery



Blade 7

A superior 100% Dwarf ryegrass renovation mixture for heavy wear

- Ideal for football, rugby, polo, race courses and sports fields
- The mixture is exceptionally hard wearing and particularly quick to recover
- Excellent live ground cover rating in turfgrass seed book
- A mixture with rapid establishment and good root development offering a dark green colour throughout the playing season & good disease resistance



Blade 7 4Turf

Ultimate renovation mixture with diploid & tetraploid ryegrass

- The ultimate renovation mixture for rapid establishment, improved protection against disease and exceptional visual merit
- Increased disease resistance and wear tolerance
- Fast establishment, improved root development and sward strength
- Exceptional wear tolerance & excellent recovery



Blade 8

Ultrafine dwarf ryegrass fineturf, cricket and tee renovation mixture

- Rapid tee renovation, tennis court and cricket square (overseeding mix)
- An excellent ryegrass blend
- Contains cultivars with proven performance under close mown wear trials
- Delivers a fine dense sward with rapid re-growth to aid recovery



Blade 9

High quality golf tee, parkland and open space mixture

- A hard wearing landscape mixture
- Establishes quickly throughout the season
- The rhizomatous grasses improve the soil binding characteristics and aid recovery
- Excellent shade and embankment mix



Product	Pack Size	Seed Species	Mowing height	Sowing Rate	Oversowing
Blade 1	20kg	80% Chewings fescue, 20% Browntop bent	Down to 4mm	15-20g/m ²	8-20g/m ²
Blade 2	10 / 20kg	50% Slender creeping red fescue, 30% Chewings fescue 20% Browntop bent	Down to 4mm	15-20g/m ²	8-20g/m ²
Blade 3	10 / 20kg	100% Browntop bent	Down to 3mm	10g/m ²	5g/m ²
Blade 4	20kg	50% Slender creeping red fescue, 50% Chewings fescue	Down to 4mm	25-35g/m ²	10-25g/m ²
Blade 5	20kg	30% Slender creeping red fescue, 25% Chewings fescue, 35% Strong creeping red fescue, 5% Hard fescue, 5% Sheeps fescue	Down to 10mm	25-35g/m2	10-25g/m2
Blade 6	20kg	35% Dwarf perennial ryegrass, 25% Strong creeping red fescue, 20% Slender creeping red fescue, 20% Chewings fescue	Down to 4mm	35-50g/m ²	15-25g/m ²
Blade 7	20kg	100% Dwarf perennial ryegrass	Down to 20mm	35-75g/m ²	25-75g/m ²
Blade 7 4Turf	20kg	75% perennial ryegrass, 25% Tetraploid perennial ryegrass	Down to 12mm	35-75g/m ²	25-75g/m ²
Blade 8	10 / 20kg	Ultrafine dwarf perennial ryegrass	Down to 2mm	35-75g/m ²	25-75g/m ²
Blade 9	20kg	50% Dwarf perennial ryegrass, 20% Tetraploid perennial ryegrass, 30% Strong creeping red fescue	Down to 10mm	35-50g/m ²	15-25g/m ²

Please contact us for cultivar details.

Aitkens Classic Grass Seed Range



This range has been popular over the years with many clubs. It offers a range of seed mixes for a wide range of uses. This range contains proven seed cultivars at a good price.

Benefits:

- Market leading cultivars
 - All seed lots checked on intake and tested at regular intervals during storage to ensure the highest levels of purity and germination
- Popular amongst a wide range of clubs
 - Economical range for clubs with tighter budgets

Product	Pack Size	Seed Species	Mowing	Sowing	Oversowing
BG (Bowling and Golf Green Mix)	20kg	90% Chewings fescue, 10% Browntop bent	Down to 4mm	15-20g/m ²	8-20g/m ²
BGS (Bowling and Golf Green Mix)	20kg	45% Slender creeping red fescue, 45% Chewings fescue, 10% Browntop bent	Down to 4mm	15-20g/m ²	8-20g/m ²
100% Bent Mix	20kg	100% Browntop bent	Down to 3mm	10g/m ²	5g/m ²
FTF (Fine Tee and Fairway)	20kg	20% Slender creeping red fescue, 35% Chewings fescue, 45% Strong creeping red fescue	Down to 10mm	35-50g/m ²	15-25g/m ²
100% Fescue Mix	20kg	50% Slender creeping red fescue, 50% Chewings fescue	Down to 5mm	25-35g/m ²	10-25g/m ²
FRS (Fairway, Recreation and Sportsfield)	20kg	30% Dwarf ryegrass, 20% Tetraploid perennial ryegrass, 15% Chewings fescue, 35% Strong creeping red fescue	Down to 4mm	35-50g/m ²	15-25g/m ²
SR (100% Strong Rye Mix)	20kg	50% Tetraploid perennial ryegrass, 50% Dwarf perennial ryegrass	Down to 20mm	35-75g/m ²	25-75g/m ²
FR (100% Fine Rye Mix)	20kg	100% Dwarf perennial ryegrass	Down to 2mm	35-75g/m ²	25-75g/m ²
P&O (Parks and Open Spaces Mix)	20kg	75% Dwarf ryegrass, 25% Strong creeping red fescue	Down to 10mm	35-50g/m ²	15-25g/m ²

BG (Bowling and Golf Green Mix)

- A 90/10 mixture containing chewings fescue and bent grasses
- Delivers good density under close mown conditions
- Good quality cultivars
- Provides a tight sward



BGS (Bowling and Golf Green Mix)

- A good quality greens mix
- Includes slender creeping red fescue and chewings fescue
- Ideal for improved colour and disease resistance
- Great overseeding mix



100% Bent Mix

- An economical greens renovation mixture
- Provides good year round colour
- Ideal mix for overseeding
- Contains two cultivars



FTF (Fine Tee and Fairway)

- A traditional fairway mixture with rapid establishment qualities
- Suits shaded & sloping sites due to the high percentage of creeping grasses
- Good tees mix where no rye is required
- Ideal for low maintenance areas



100% Fescue Mix

- 100% Fescue blend of top rated cultivars
- Delivering maximum genetic diversity
- Contains slender red and chewings fescues
- Ideal for overseeding greens, tees & fairways



FRS (Fairway, Recreation and Sportsfield)

- Containing 50% dwarf prg & 50% fine grasses, you get the best of both worlds
- A very hard wearing mix with improved shoot density
- Excellent tee renovation mixture
- Exceptional wear tolerance & excellent recovery



SR (100% Strong Rye Mix)

- Delivers rapid establishment, good colour & high levels of wear tolerance
- This mixture is ideal for football, rugby and cricket outfields
- Tetraploids will give rapid establishment and unique stress tolerance



FR (100% Fine Rye Mix)

- A flexible mixture capable of withstanding close mowing and heavy wear
- Rapid establishment, suitable for cricket wickets and tees
- Provides a tight dense sward
- Cost effective cricket wicket mix



P&O (Parks and Open Spaces Mix)

- A very economical turf mixture
- Hard wearing mix with good colour
- Rapid establishment
- Also suitable for tee renovation.



PLEASE CONTACT US FOR CULTIVAR DETAILS



CLASSIC GRASS SEED RANGE

The Aitkens Classic range has been designed to be used by clubs who require an excellent range of proven seed mixtures at a good price.



Johnsons J Range Grass Seed



For over 200 years Johnsons Sports Seed mixtures have been helping to produce quality sports turf with an unequalled reputation for technical excellence, reflecting the standards set by the people who use them.

Benefits:

- Only high quality seed and cultivars are used
- Contain "Gro Max" seed treatment for improved establishment
- Some mixes have "Pro Nitro" nutrient coating
- The range includes "tetraploid ryegrasses" for fast establishment and stress tolerance

Mixes include:

- | | | |
|---------------------|--------------------------|-------------------------|
| • J Green | • J Tee | • J Pitch |
| • J Rye Green | • J Nitro Tee | • J Premier Pitch |
| • J Premier Green | • J Rye Fairway | • J Nitro Premier Pitch |
| • J All Bent | • J Nitro Rye Fairway | • J 4Turf |
| • Cobra Nova | • J Roughs | • J Nitro 4Turf |
| • J Fescue | • J Intense | • J 4Turf 100 |
| • J Nitro Fescue | • J Premier Wicket | • J Rescue Stadia |
| • J Links | • J Nitro Premier Wicket | • J Rescue 100 |
| • J Fairway | • J Outfield | • J Multi Sport |
| • J Premier Fairway | • J Premier 4 Turf | |



Wildflower Mixes



Add colour, diversity and interest to your landscape project with UK native wild flower meadow mixtures

In order to meet with the increasing demand for conservation mixtures, we have formulated twelve mixtures, each designed to recreate a particular habitat.

Wildflower Mix 1 - Cornfield Annuals

A traditional range of cornfield annuals providing a colourful show in the first year, suitable for a range of soils, spring or autumn sown. Can be harrowed and re-sown in subsequent years alternatively the grasses can be left and managed as with a "long grass" policy or incorporated into a more regular mowing regime.



Wildflower Mix 2 – Acid Soils (Below pH6)

A species rich grassland mix suited for a range of soils types with a neutral to acidic pH. Often suited to upland regions.



Wildflower Mix 3 – Damp Loamy Soils

This species rich grassland mix lends itself well to a wide range of soils commonly found in lowland meadow situations. Contains a wide range of flowering species that will flourish in a variety of situations.



Wildflower Mix 4 – Calcareous Soils

Calcareous lime rich soils can often be lower in nutrient and free draining. On very thin soils, establishment can be slow and the grass growth a little thinner, this is ideal for the long term development of the flower species in the mix.



Wildflower Mix 5 – Wet Loamy Soils

This mixture is ideal for low lying heavier soils represented best by lowland water meadows and flood plains that experience seasonal flooding. These soils can have a higher nutrient levels so careful management of the grass species is key to the successful establishment of this mix.



Wildflower Mix 6 – Dry Loamy Soils

Dryer soils are often lower in nutrient providing an ideal root zone for wild flower species, this mixture can be used on maintainable slopes with lower available moisture as well as larger areas of lighter soil.



Wildflower Mix 7 – Hedgerows

Lightly or partially shaded areas present their own challenges as amounts of light and sunshine can vary dramatically. Contained within this mix are a species that will thrive in an environment of this type



Wildflower Mix 8 – General Purpose

A fantastic all round mixture suitable for a whole range of sites and soils containing a range of the most robust species that will establish quickly. Mix 8 is our most popular 80/20 mix and provides great value for money.



Wildflower Mix 9 – General Purpose

A diverse mixture containing over 40 species, ideal on a range of sites and soils, especially where the establishment of a greater number of species is required. The mix contains annuals making it ideal for sites where there is to be no "year one" mowing as part of the maintenance provision allowing the annuals to flower providing colour in the first year.



Wildflower Mix 10 – General Purpose

A good all round mixture suitable for a whole range of sites and soils containing the same range of robust flower species found in Mix 8. The inclusion of annuals makes it ideal for sites where there is to be no "year one" mowing as part of the maintenance provision allowing the annuals to flower providing colour in the first year. Mix 10 is our most popular 90/10 mix and offers great value for money.



Wildflower Mix 11 – Heavy Shade

Heavy shade provides a really challenging environment but the key shade indicator species used in this mixture are well placed to thrive, suggested for areas that are already subject to an element of shade.



Wildflower Mix 12 – Water Margins & Pond Edges

Establishing mixtures on water margins can be difficult due to fluctuating water levels, try and sow when weather conditions look stable. Only use this mix where there is a constant supply of moisture, this is essential for the indicator species to thrive.



Wildflower Mix 13 – Species Rich Lawn

A species rich lawn mixture of UK native origin wild flowers and fine leaved low growing grasses suited to a varied management regime in terms of cutting height and frequency.

This flexibility allows mowing every couple of weeks at 75-100mm in a more intensively managed area, right through to a conventionally managed species rich grassland receiving just one or two cuts a year.



Wildflower Mix 14 – Herb & Tussock

By using species with varying heights and structures we can provide a habitat for a wider range of insects, small mammals, amphibians and reptiles.



Wildflower Mix 15 – Pollinator

A species rich mixture designed to attract and feed pollinating insect species.



Wildflower Mix 16 – Coastal

A species rich mixture designed to thrive under coastal conditions.



Wildflower Mix 110 – General Purpose

A good all round value for money mix, suitable for a whole range of sites and soils containing the same range of robust flower species.



Carnival – High Impact Annuals

Designed to create a robust and attractive display in any park, public open space or golf course. This 100% flower mixture will provide a dazzling annual display. Quick to establish with a long flowering period from 8 weeks after sowing up until the first frosts.



Floral Carpet – High Impact Low Grow Annuals

Low-Growing seasonal annuals mixture, designed to create a robust and attractive display in areas where final growing height is of paramount importance. This is particularly relevant when sowing near visibility splays and sight lines on road junctions. This 100% dwarf flower mixture will provide rich blooms throughout the season, perfect for enhancing any street scene. Quick to establish with a long flowering period from 8 weeks after sowing up until the first frosts.



Skyscraper – Taller Growing Annuals

A mix designed with the taller seasonal annuals in mind. This will create a robust and attractive display in areas where taller flowers are required.



Biodiversity – Habitat & Pollinator

Seasonal Perennials mixture containing 100% Flowers, the mixture consists of 90% perennial flower species, and 10% annual species that give colour the first year. The composition of species is wide and ensures a good adaptability to different growing conditions. The colour scheme of the mix changes during the season according to which species are in bloom at the time.



Honey Bee & Butterfly – Attracts Bees & Butterflies

The Honey Bee mixture is composed of flowering plants for landscaping, which will attract insects, bees and other pollinators this mixture is perfect for attracting pollinating insects whilst beautifying the countryside.



Blush – Roses & Reds

Pale pinks through to deep reds, Colour Boost 4 provides a beautifully warm mix of flowers from this colour palette. Designed for great succession flowering from late spring through to well into the autumn.



Classical – Blues & Whites

A beautiful mix of blue and white annuals.



Chameleon – All Season Multi-Colour

A brilliantly diverse mixture of over 40 species and subspecies providing a fantastic range of colours and forms. This mixture is constantly changing throughout the growing season. Summer Chameleon has been a consistent performer on our trial grounds giving a fantastic show throughout the season.



Poppy – 100% Field Poppy Annual

Poppy Mixture is an excellent choice for those wanting to create a vivid red show of colour. It is a popular choice for those wanting to create Armistice displays as the poppies create a poignant reminder of those who lost their lives in battle.



Product	Seed Species	Pack Size	Sowing Rate	Pack coverage
Wildflower Mix 1 - Cornfield Annuals	20% wild flora, 80% grass	1 / 10kg	5g/m ²	200m ² / 2000m ²
Wildflower Mix 2 – Acid Soils (Below pH6)	20% wild flora, 80% grass	1 / 10kg	5g/m ²	200m ² / 2000m ²
Wildflower Mix 3 – Damp Loamy Soils	20% wild flora, 80% grass	1 / 10kg	5g/m ²	200m ² / 2000m ²
Wildflower Mix 4 – Calcareous Soils	20% wild flora, 80% grass	1 / 10kg	5g/m ²	200m ² / 2000m ²
Wildflower Mix 5 – Wet Loamy Soils	20% wild flora, 80% grass	1 / 10kg	5g/m ²	200m ² / 2000m ²
Wildflower Mix 6 – Dry Loamy Soils	20% wild flora, 80% grass	1 / 10kg	5g/m ²	200m ² / 2000m ²
Wildflower Mix 7 – Hedgerows	20% wild flora, 80% grass	1 / 10kg	5g/m ²	200m ² / 2000m ²
Wildflower Mix 8 – General Purpose	20% wild flora, 80% grass	1 / 10kg	5g/m ²	200m ² / 2000m ²
Wildflower Mix 9 – General Purpose	10% wild flora, 90% grass	1 / 10kg	5g/m ²	200m ² / 2000m ²
Wildflower Mix 10 – General Purpose	10% wild flora, 90% grass	1 / 10kg	5g/m ²	200m ² / 2000m ²
Wildflower Mix 11 – Heavy Shade	20% wild flora, 80% grass	1 / 10kg	5g/m ²	200m ² / 2000m ²
Wildflower Mix 12 – Water Margins & Pond Edges	20% wild flora, 80% grass	1 / 10kg	5g/m ²	200m ² / 2000m ²
Wildflower Mix 13 – Species Rich Lawn	20% wild flora, 80% grass	1 / 10kg	5g/m ²	200m ² / 2000m ²
Wildflower Mix 14 – Herb & Tussock	20% wild flora, 80% grass	1 / 10kg	5g/m ²	200m ² / 2000m ²
Wildflower Mix 15 – Pollinator	20% wild flora, 80% grass	1 / 10kg	5g/m ²	200m ² / 2000m ²
Wildflower Mix 16 – Coastal	20% wild flora, 80% grass	1 / 10kg	5g/m ²	200m ² / 2000m ²
Wildflower Mix 110 – General Purpose	5% wild flora, 95% grass	1 / 10kg	5g/m ²	200m ² / 2000m ²
Carnival – High Impact Annuals	100% annuals	1 / 10kg	3-5g/m ²	200-333m ² / 2000-3333m ²
Floral Carpet – High Impact Low Grow Annuals	100% annuals	1 / 10kg	3-5g/m ²	200-333m ² / 2000-3333m ²
Skyscraper – Taller Growing Annuals	100% annuals	1 / 10kg	3-5g/m ²	200-333m ² / 2000-3333m ²
Biodiversity – Habitat & Pollinator	90% perennials, 10% annuals	1 / 10kg	3-5g/m ²	200-333m ² / 2000-3333m ²
Honey Bee & Butterfly – Attracts Bees & Butterflies	100% annuals	1 / 10kg	3-5g/m ²	200-333m ² / 2000-3333m ²
Blush – Roses & Reds	100% annuals	1 / 10kg	3-5g/m ²	200-333m ² / 2000-3333m ²
Classical – Blues & Whites	100% annuals	1 / 10kg	3-5g/m ²	200-333m ² / 2000-3333m ²
Chameleon – All Season Multi-Colour	100% annuals	1 / 10kg	3-5g/m ²	200-333m ² / 2000-3333m ²
Poppy – 100% Field Poppy Annual	100% annuals	1 / 10kg	3-5g/m ²	200-333m ² / 2000-3333m ²

AITKENS TURF



Introducing the Aitkens Turf

Aitkens have been providing quality turf for over 50 years to major sporting venues and high profile sites.

Our turf has been chosen from a select group of turf growers who can provide the right type and quality of turf throughout the year. We get information from them regarding turf development, quality, cultivars and at what stage their turf is at for harvesting. Traditionally most companies and clubs deal with one turf grower therefore restricting the choice and quality of turf available to them.

Therefore let us find you the very best personalised turf that is available whenever you require it.

Greens Turf

A turf designed for use on bowling, golf greens and luxury lawns. This mix of fescue and bents has been chosen from the top cultivars available. These cultivars give a dense sward with a fine surface.

Fescue Turf

A Fescue turf suitable for golf and bowling greens, golf fairways and luxury lawns. This turf is ideal where a dense turf is required and a fine textured finish.

Tees Turf without Rye

A tees turf without rye. This mix is suitable for ornamental lawns, golf tees, fairways and general landscaping where a quality finish is required. This turf will give a fine leaved appearance and will be more resistant to drought and shade.

Tees Turf with Rye

A tees turf which includes rye for harder wearing qualities. This mix is truly versatile for use on golf courses and landscaping. By including rye grass this mix will give fast establishment and improved wear tolerance.

Sports Pitch

This sports turf mix is designed to meet the demands of football, rugby and other high wear sports where fast recovery is required. It also is ideal for high traffic areas such as pathways.

Bunker Turf

This turf is ideal for use on revetted bunker faces. It will produce a sharp finish to any bunker renovation project.

Hybrid Turf

Turf reinforced with artificial grass fibres to increase the longevity of the playing surface.

High Quality Turf for Sporting Venues
and Prestigious Sites

Top Dressing, Rootzones, Sands, Aggregates & Loam

We have a great expertise in supplying quality bulk supplies over many years.

The most important aspect of construction or maintenance of any sports surface is to use quality materials. If poor or incorrect quality materials are used you are left with the consequences for years to come. That is why we offer testing to ensure the correct product is being used. The products we supply are made to a specification and are tested at laboratories with a relevant specification sheet so the customer knows what will be received.

Top Dressing

- High quality sands combined with soil
- Sterilised and graded to a high quality
- Available in bulk or 25kg bags

Rootzones

- Specially selected sands blended with soil, peat or composted materials
- All manufactured to high quality specifications
- Available in bulk

Bunker Sands

- A range of specifically blended sands to outperform single sand options
- Will perform as designed without plugging and still drain
- Available in bulk

Sands

- Quality tightly graded banding of sands to ensure performance
- Suitable for dressing, construction or synthetic surfaces
- Available in bulk, (tonne bags or 25kg bags, dried sands only)

Divot Mix

- Purpose designed mixes to enable rapid establishment of seed
- Available with soil or composted base mixed with sand
- Available in bulk

Grits & Gravels

- A range of single sized, clean, free draining gravel and grits
- Can be used for greens construction and drainage
- Available in bulk

Pathway & Sports Surface Aggregate

- Self binding gravel and path dressings
- Available in a wide range of materials and colours
- Available in bulk

Cricket & Tennis Loam

- Good quality clay content loams
- Will provide a hard true surface
- Kettering Loam
- Club Loam
- County Loam
- Kaloam
- Ongar Loam
- Surrey Loam
- Essex Loam
- Mendip Loam
- Available in bulk, tonne bags & 25kg bags

Compost & Bark

- We offer a wide range of composts suitable for potting, bedding and general purpose
- We offer a wide range of barks suitable for mulching or as play bark
- Available in bulk or a range of bag sizes

De-icing Products

- Rock salt is available in bags or bulk for use on hard surfaces
- Ice-Free is a fast acting ice melt designed to work at lower temperatures than rock salt
- Available in a range of pack sizes
- We also have a range of spreaders available

Drainage



Aquadyne

A revolutionary drainage material made from recycled plastic with a capacity of up to 5L per unit. The Aquadyne is far greater than that of conventional drainage materials. Each unit will preserve and retain moisture during dry periods due to the high surface area and porous honeycomb structure.

Natural turf sports surfaces demand highly efficient, reliable, long lasting drainage performance. Aquadyne performs at a consistently high level and can considerably reduce the long term costs associated with maintenance and refurbishment.

Cost savings of up to 20% can be made compared to conventional drainage systems. Eradicate sand migration into pipes.

No more gravel on the fairway, on the green or in the bunker.

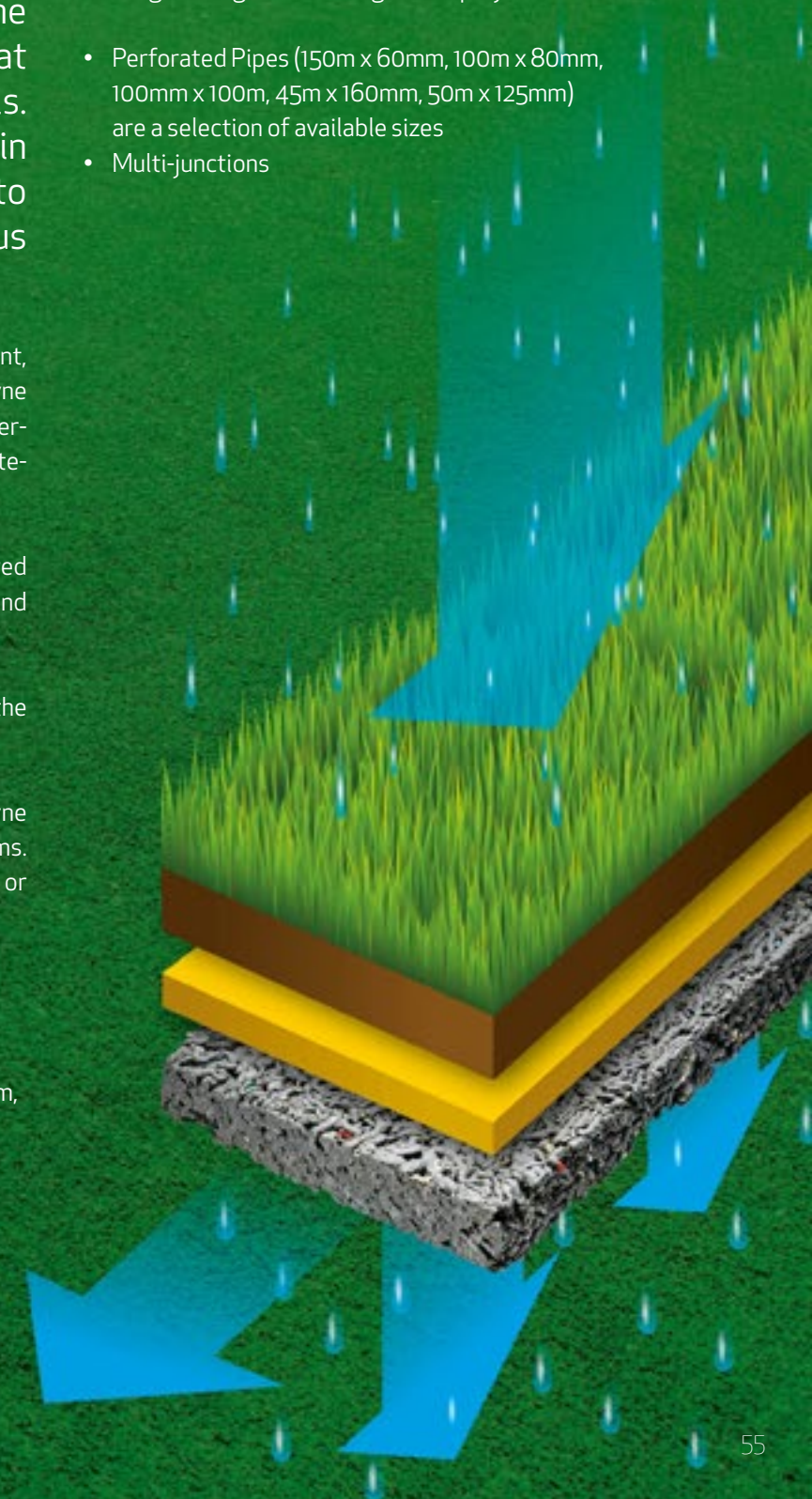
Installation is quick, clean and simple, and Aquadyne is 75% lighter than aggregate drainage mediums. Aquadyne can be reused if the area is modified or re-constructed.

- Ideal for use in regular drainage projects eg. Fairways, tees, greens and sports outfields
- Particularly successful as a bunker drainage system, eliminating gravel migrating into the sand
- 100% recycled plastic enables quick installation
- Higher performing than gravel pipe systems
- Pack size 152 or 76 x 1m linear units

PVC Land Drainage Pipe

We offer a wide selection of drainage materials for conventional systems. These can be used from small drainage emergencies to large scale projects.

- Perforated Pipes (150m x 60mm, 100m x 80mm, 100mm x 100m, 45m x 160mm, 50m x 125mm) are a selection of available sizes
- Multi-junctions



Vision Liquid Irons

Vision Reflex Iron (8%Fe+RSi+Mg+Te)

A dual source iron with "RSi", a unique bio-stimulant which will promote root hair and rootmass. It is formulated with a powerful surfactant blend to give rapid colour improvement to all turf surfaces, with the added benefits of short-term dew dispersal. It also contains six key ingredients which work in synergy to give outstanding results.

- 8% Dual source iron complex and EDTA chelated iron formulation
- Added magnesium and trace elements
- Rapid action within a few hours and lasts up to 6 weeks
- Effective in low soil temperatures
- Unique formulation including RSi (Root stimulant & improver)
- No blackening of turf
- Can be taken up by both foliar and root modes of action
- Dew dispersal properties



Ultimax-SL Tournament

A high strength (Ascophyllum Nodosum) seaweed plus iron formulation designed to give good colour with all the benefits of added seaweed. This product is perfect for use prior to major events to green up turf, or when long term in season greening is needed.

- A 7%Fe Ideal for pre-tournament preparation
- Green-up within 24 hours without soft growth
- Active during periods of low soil temperatures
- Conditions turf, helping to improve disease tolerance and encourage deeper rooting
- Source of trace elements and plant growth stimulants
- Ideal for use throughout the year



Vision Reflex Iron+K (8%Fe+6%K+RSi+Mg+Te)

All the attributes of Reflex Iron with 6% added potassium for maximum hardening of the plant. This product is our most popular liquid iron and is ideal for use in the autumn. RSi promotes increased rootmass and root hair development, increasing the plants ability to take up water and nutrients. This formulation contains no nitrogen.

- 8% Iron complex and chelated iron formulation
- Added 6% potassium for plant hardening and helps rectify potassium deficiencies
- Strengthens cell walls increasing resistance to low temperatures
- Rapid action with excellent longevity (up to 6 weeks)
- Unique formulation including RSi (Root stimulant & improver)
- Regulates the opening and closing of the stomata, which is required for efficient water use
- Will not alter acidity and thus worsen dry patch
- Added magnesium and trace elements



Vision Reflex Guard (7-1-0+4%Fe+8%S+Orange Oil+Te)

Vision Reflex Guard is a stand-alone disease prevention agent working by strengthening the plants natural ability to defend against disease outbreaks. This specially developed formulation is composed of nutrients with 4% Iron. Reflex Guard also utilises a sulphur, manganese and zinc source, which are combined with a unique organic acid (Orange Oil) wetting agent.

- Designed to be used as part of a preventative integrated disease management strategy to minimise the risk of disease outbreak
- Contains an organic acid wetting agent which enhances leaf penetration and leaf coverage
- Reduces the risk of disease by creating an adverse environment for pathogens to infect the turf plant
- Surfactant / iron combination gives a dew dispersal and a hardening effect to discourage disease
- Ideal to use with Vision Nutri-Smart Armour to strengthen the overall disease management strategy
- Promotes excellent colour and increases leaf chlorophyll content.
- Right amount of nitrogen will allow the plant to recover more quickly from any disease damage during an outbreak



Product	Pack Size	Small Sprayer Treating 100m ²	Powered Sprayer Treating	Coverage 5L	Usage Period (Month)											
Vision Reflex Iron (8%Fe+RSi+Mg+Te)	5L / 200L	200ml in 6-10L water	20L in 600-1,000L water	2,500 m ²	J	F	M	A	M	J	J	A	S	O	N	D
Vision Reflex Iron+K (8%Fe+6%K+RSi+Mg+Te)	5L / 200L	200ml in 6-10L water	20L in 600-1,000L water	2,500 m ²	J	F	M	A	M	J	J	A	S	O	N	D
Vision Reflex Guard (7-1-0+4%Fe+8%S+Orange Oil+Te)	5L	200-400ml in 7-10L water	20-40L in 700-1,000L water	1,250-2,500 m ²	J	F	M	A	M	J	J	A	S	O	N	D
Ultimax-SL Tournament	10L	450ml in 5-10L water	45L in 500-1,000L water	2,222 m ²	J	F	M	A	M	J	J	A	S	O	N	D

Reflex Range Nozzle Guide	Hypro Nozzles				Hardi Nozzles			
Power Sprayer	Medium	Flat fan	Brown	F110-05	Medium	Flat fan	Brown	FF05 110
Knapsack (boom)	Coarse	Flat fan	White	F80-04	Medium	Flat fan	Red	04 E80
Knapsack (single jet)	Medium / Coarse	Flood jet	Red	DT 4.0	Coarse	Flood jet	Red	AN 2.4

Ultimax SL Nozzle Guide	Hypro Nozzles				Hardi Nozzles			
Power Sprayer	Medium	Flat fan	White	F110-08	Flat fan	Medium	Brown	FF05 110
Knapsack (boom)	Coarse	Flat fan	Red	F80-04	Flat fan	Medium	Red	04 E80
Knapsack (single jet)	Medium / Coarse	Flood jet	White	DT 4.0	Flood jet	Coarse	Red	AN 2.4

This chart is produced as a guide only.



Liquid Irons

Moss Control, Biocides & Specialist Fertilisers

Aitkens Liquid Sulphate Of Iron (7%Fe)

A liquid version of soluble iron / sulphate of iron. This product has been formulated to remove any unwanted crystals that damage sprayers or block nozzles. It is an economical way to green-up large areas.

- An economical liquid iron
- Designed for use on large areas
- Will help acidify the soil
- Easy to mix



Sportsmaster WSF Iron

A soluble iron formulation which will produce a dark green sward and will promote disease resistance. It will dissolve rapidly in cold water without the need for constant mixing or agitation.

- Soluble iron formulation
- Ideal for use in the colder months
- Cost effective treatment for large areas
- Easy to mix and use



Ferrosol Iron (6%Fe)

A unique iron and nitrogen bonded complex which provides a quick green-up of turf without over stimulation of growth and without wheel marks or blackening.

- 6% Iron and nitrogen bonded complex
- Will not mark turf
- Helps harden the turf
- Easy to mix



Product	Pack Size	Small Sprayer Treating 100m ²	Powered Sprayer Treating	Coverage 5L	Usage Period (Month)											
Aitkens Liquid Sulphate Of Iron (7%Fe)	20L / 200L	200ml in 7L water	20L in 700L water	10,000 m ²	J	F	M	A	M	J	J	A	S	O	N	D
Sportsmaster WSF Iron	15kg	100-200g in 9L water	10-20kg in 900L water	7,500-15,000m ²	J	F	M	A	M	J	J	A	S	O	N	D
Ferrosol Iron (6%Fe)	10L	200ml in 8L water	20L in 800L water	5,000 m ²	J	F	M	A	M	J	J	A	S	O	N	D

Vision Moscure

A unique liquid iron and blend of surfactants that allow the iron to enter the plant rapidly, but without blackening the turf. It is ideal for use in the autumn and early spring for rapid greening up, hardening of turf and discourage moss ingress.

- Gives a rapid green up
- High iron content to harden turf and discourage moss ingress.
- Reduces the surface pH helping to suppress casting worm activity
- Low application rates



Vision CleanmaxPRO (HSE 10719)

Hard surfaces can become colonised with algae, lichen and mould, especially in shaded situations. These areas can become a safety hazard due to the slippery surface, making them dangerous especially for sports activity.

CLEANMAXPRO is a blend of organic acids and surfactants that loosen deposits acting as a safe cleaner for all types of hard surfaces. Apply using spraying equipment when no rain is expected and should be allowed to dry thoroughly. If there is significant infestation the area may need to be brushed, hosed or pressure washed to remove dead vegetative matter after a couple of days



- Cleans and removes algae, lichen & mould on hard surfaces
- Concentrated formulation and economical
- Brightens up concrete surfaces and reduces the risk of slippery surfaces
- Low application rates and long lasting compared to other hard surface cleaners

Product	Pack Size	Small Sprayer Treating 100m ²	Powered Sprayer Treating 10,000m ²	Coverage 5L (m ²)
Vision Moscure	5L	400ml in 7L water	40L in 500-700L water	1,250 m ²
Vision CleanmaxPRO (HSE 10719)	5L	500ml in 6L water	50-200L in 450-800 L water	250-1,000 m ²

Moscure Nozzle Guide	Hypro Nozzles				Hardi Nozzles			
Power Sprayer	Medium	Flat fan	White	F110-08	Medium	Flat fan	Brown	FF05 110
Knapsack (boom)	Coarse	Flat fan	Red	F80-04	Medium	Flat fan	Red	04 E80
Knapsack (single jet)	Medium / Coarse	Flood jet	White	DT 4.0	Coarse	Flood jet	Red	AN 2.4

This chart is produced as a guide only.

Nutri-Smart 4-0-10+11%Fe+4.7%CaO+RSi+Amino+Lig+Te

- High iron content to discourage moss ingress and strengthen the plant against disease
- Iron and Lignite will give improved colour over a longer period of time
- Designed to sustain turf health in the early and late season
- Amino acid will hasten turf response in cooler temperatures



Nutrient applied at 35g/m² N-14 P-0 K-35 kg/ha

Aitkens Lawn Sand 5-0-0+2.9%Fe

- Powder Formulation
- High iron content will help harden the plant and provide good colour
- Cost effective dressing for early spring
- Will help produce a healthy and resilient sward



Nutrient applied at 70g/m² N-34 P-0 K-0 kg/ha

Aitkens Lawn Sand Plus 3-0-0+7%Fe

- Powder Formulation
- A low N high iron content will help harden the plant and provide good colour
- Ideal early start product
- Improves turf colour and produce a healthy and resilient sward



Nutrient applied at
68g/m² N-21 P-0 K-0 kg/ha

Renovator Pro 14-0-5+6%Fe+Herbicide (MAPP 16803)

- Maintains growth and contains selective herbicide for weed control plus iron for moss control
- Contains two selective herbicides MCPA & Mecoprop-P
- Added iron will control moss
- Will control common broad leaved weeds



Nutrient applied at
35g/m² N-49 P-0 K-17.5 kg/ha

Cleanrun Pro 14-0-5+Herbicide (MAPP 15828)

- Single application in spring and summer periods when broad leaved weeds are present
- Contains two selective herbicides MCPA & Mecoprop-P
- Will control common broad leaved weeds
- Balanced NPK formulation



Nutrient applied at
35g/m² N-49 P-0 K-17.5 kg/ha

Weed Feed & Mosskiller 10-2-1.7+8%Fe (MAPP 19064)

- Single application during the growing season
- Contains three selective herbicides Dicamba, 2,4D & Mecoprop
- High iron content will control moss
- Ideal for lawns



Nutrient applied at
32g/m² N-32 P-6.4 K-5.44

Product	Pack Size	Application rate	Pack coverage m ²	Usage Period (Month)											
Nutri-Smart 4-0-10+11%Fe+4.7%-CaO+RSi+Amino+Lig+Te	20kg	30-35g/m ²	571-666m ²	J	F	M	A	M	J	J	A	S	O	N	D
Aitkens Lawn Sand 5-0-0+2.9%Fe	20kg	35-140g/m ²	142-571m ²	J	F	M	A	M	J	J	A	S	O	N	D
Aitkens Lawn Sand Plus 3-0-0+7%Fe	25kg	35-140g/m ²	178-714m ²	J	F	M	A	M	J	J	A	S	O	N	D
Renovator Pro 14-0-5+6%Fe+Herbicide (MAPP 16803)	25kg	35g/m ²	714m ²	J	F	M	A	M	J	J	A	S	O	N	D
Cleanrun Pro 14-0-5+Herbicide (MAPP 15828)	25kg	35g/m ²	714m ²	J	F	M	A	M	J	J	A	S	O	N	D
Weed Feed & Mosskiller 10-2-1.7+8%Fe (MAPP 19064)	20kg	32g/m ²	625m ²	J	F	M	A	M	J	J	A	S	O	N	D

WARNING: USE PLANT PROTECTION PRODUCTS SAFELY.

ALWAYS READ THE LABEL, DOUBLE CHECK APPLICATION RATES AND PRODUCT INFORMATION BEFORE USE

Integrated Turf Management Products

We can offer a range of products which are non-pesticidal that do not act directly on the pathogen or pest. These products below in conjunction with species selection, cultural practices and monitoring of the environment, can prove to be effective in improving plant health and growth. This is achieved by maximising plant health and environmental conditions during periods of high environmental or pest pressure.

Vision Reflex Guard (7-1-0+4%Fe+6%K+Orange Oil+Te)

Vision Reflex Guard is a stand-alone disease prevention agent working by strengthening the plants natural ability to defend against disease outbreaks. This specially developed formulation is composed of nutrients with 4% Iron. Reflex Guard also utilises a sulphur, manganese and zinc source, which are combined with a unique organic acid (Orange Oil) wetting agent.



- Designed to be used as part of a preventative integrated disease management strategy to minimise the risk of disease outbreak
- Contains an organic acid wetting agent which enhances leaf penetration and leaf coverage
- Reduces the risk of disease by creating an adverse environment for pathogens to infect the turf plant
- Surfactant / iron combination gives a dew dispersal and a hardening effect to discourage disease
- Ideal to use with Vision Nutri-Smart Armour to strengthen the overall disease management strategy
- Promotes excellent colour and increases leaf chlorophyll content.
- Right amount of nitrogen will allow the plant to recover more quickly from any disease damage during an outbreak

Vision Nutri-Smart Armour

A concentrated readily available form of potassium phosphite. Added spreading and sticking agents are partnered with a complexing agent and 3% biostimulant based on humic acids for improved plant health.



- Designed to strengthen turf grass by increasing resistance during periods of high environmental stress and pathogenic pressure
- A hybrid of potassium phosphite, biostimulant, spreading, complexing and sticking agents
- Can be implemented into an integrated disease management programme.
- Improves rooting development with added humic acid
- Ideal to use with Vision Reflex Guard to strengthen the overall disease management strategy

Nutrient applied at
10L / Ha N-0 P-2.2 K-1.5 kg/ha

Product	Pack Size	Small Sprayer Treating 100m ²	Powered Sprayer Treating 10,000m ²	Coverage 5L (m ²)	Usage Period (Month)											
Vision Reflex Guard (7-1-0+4%Fe+6%K+Orange Oil+Te)	5L	200-400ml in 7-10L water	20-40L in 700-1,000L water	1,250-2,500 m ²	J	F	M	A	M	J	J	A	S	O	N	D
Vision Nutri-Smart Armour 0-22-15	5L	50-100ml in 3-5L water	5-10L in 300-500L water	5,000-10,000m ²	J	F	M	A	M	J	J	A	S	O	N	D

Vision Ultimax-SL Fortify

A liquid seaweed containing potassium phosphite to strengthen the plant at times of disease pressure. Ideal to use with Vision Reflex Iron+K

- A 0-3-8 to fortify the plant against stress at key periods of the year
- Readily available source of Potassium Phosphite
- Phosphite stimulate healthy growth & support the plant's natural defences
- Increased root and shoot growth from this available form of phosphate
- 14-18% Bioactives improve soil biology & microbial populations



Nutrient applied at
45L / Ha N-0 P-1.3 K-3.6 kg/ha

Vision Dewlift

A dew dispersant for use on all turf types.

A concentrated formulation of specially selected polymeric surfactants. The two surfactants have a twin mode of action; firstly, they are very effective at reducing the surface tension of water molecules thus preventing dew formation; secondly they have a very strong binding capacity, which enables them to attach to the surface of the leaf giving superior longevity to other dew control products.

Dewlift is most effective when applied to a dry turfgrass surface. Typically Dewlift will disperse dew for 7-14 days after application. This may vary due to many factors such as dampness of grass at the time of application, temperature severity of dew, mowing frequency and type of turfgrass treated.



- Will disperse dew for 7-14 days
- Reduces the need for switching dew from greens early in the morning
- Use as part of a program to help minimize the risk of disease
- Two way mode of action Ideal
- In winter to keep greens frost free

BRU Turf-Clear

Allows casting worms to continue working for the betterment of the rootzone and may limit their negative visual impact on the playing surface. This product will help lift early and late season soil temperature and help acidify the surface.

- Will lift early and late season soil temperature
- Help trigger rooting and drive early photosynthesis
- Contains plant extract to ensure turf quality
- 20L/Ha First application, Second application if required 10L/Ha 7-10 days later



BRU Turf-Hold

Organic carbon fractions and biostimulants to strengthen; turf, root systems and their resilience. Frequent support of the grass plant and rootzone will aid turf resilience at times of feeding grubs and subsequent bird and animal damage.

- Prolongs CEC and nutrient uptake
- Contains a plant extract to ensure turf quality
- Contains a combination surfactant group
- Will help acidify the soil



BRU Turf-PRE

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

- Prepare the site defences ahead of disease period
- Strengthen positive rootzone microbial populations
- Limit the size and intensity of disease outbreaks
- Apply at 21 day intervals in disease risk periods



BRU Turf-POST

The botanical extract in a plant ferment will help inhibit fungal disease development and interrupt its spread into the turf sward.

- Designed to supply metabolites and enzymes to re-boot turf health
- Contains bio-stimulants to promote turf quality
- Contains a combination surfactant group
- Use after or instead of Bru Turf-PRE when needed



BRU Turf-FIX

This product is formulated to clean-up biologically harmful chemical residues

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



BRU Plus

Acts as a surface acidifier to shock active fungal disease spores on the surface. Ideal to use as an Integrated Turf Management product to follow on in late autumn from a Bru Turf-PRE programme.

- Acidify the soil surface to hinder pathogen development
- Kind on surfaces whilst strengthening plant rejuvenation
- Multiple applications are safe on your rootzone
- Contains Oligosaccharides to improve turf response to stress



Enhance C Soil Conditioner 2.6-1-1

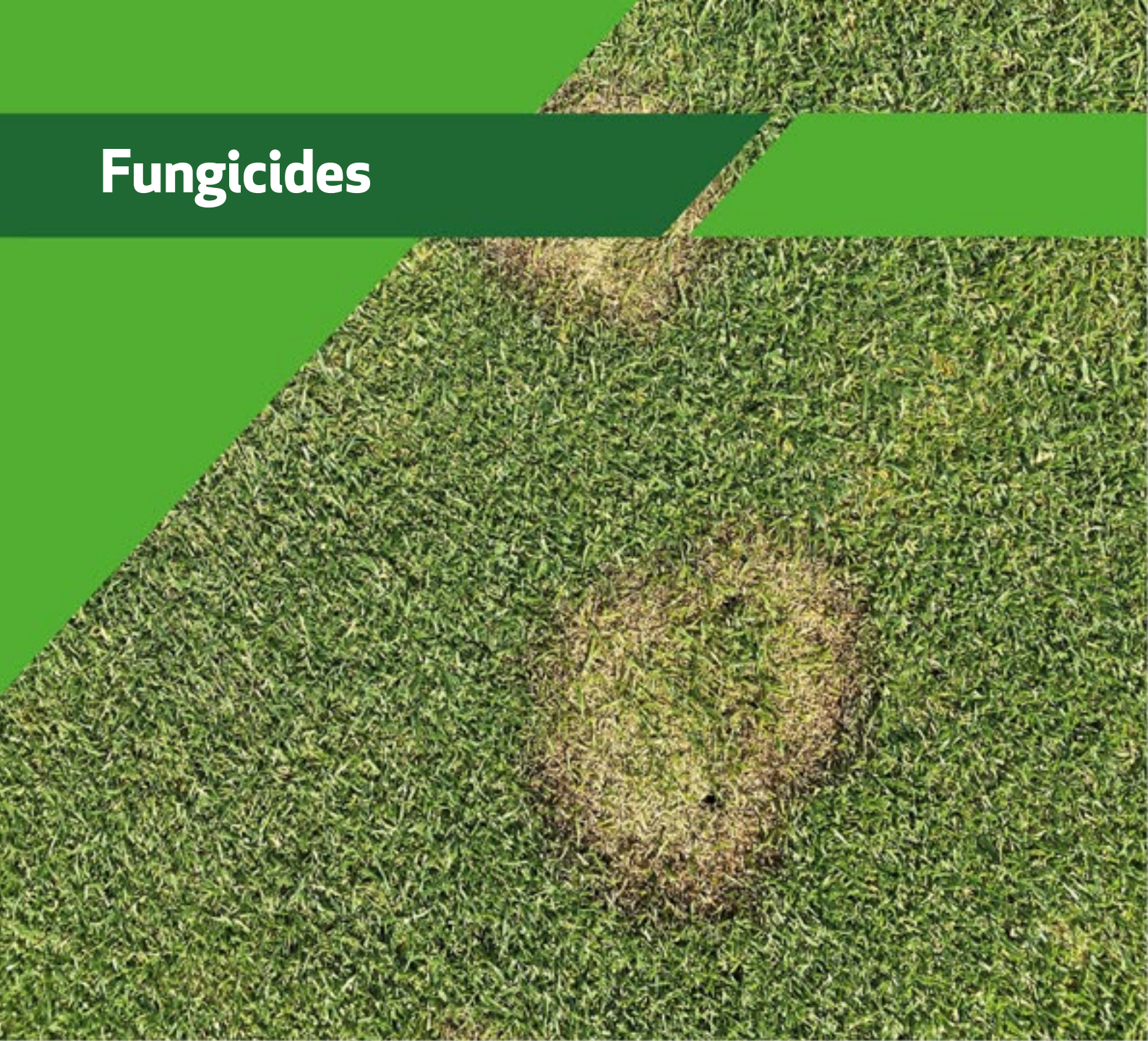
- Natural based soil conditioner containing plant extracts
- Natural plant Saponins enhances the plants natural defence
- Contains slow release nitrogen
- Will increase microbial activity and boost plant health



Nutrient applied at
30g/m² N-8 P-2.5 K-3.1 kg/ha

Product	Pack Size	Small Sprayer Treating 100m ²	Powered Sprayer Treating 10,000m ²	Coverage 5L (m ²)	Usage Period (Month)											
Vision Ultimax-SL Fortify	10L	450ml in 5-10L water	45L in 500- 1,000L water	2,222 m ²	J	F	M	A	M	J	J	A	S	O	N	D
Vision Dewlift	5L	100ml in 4L water	10L in 400L water	5,000 m ²	J	F	M	A	M	J	J	A	S	O	N	D
BRU Turf-Clear	10L	200ml in max 25-30L water	10-20L in 250- 350L water	5,000- 10,000m ²	J	F	M	A	M	J	J	A	S	O	N	D
BRU Turf-Hold	10L	100ml in 2.5L water	10L in 200- 250L water	10,000m ²	J	F	M	A	M	J	J	A	S	O	N	D
BRU Turf-PRE	10L	100-200ml in 2-4L water	10-20L in 200- 400L water	5,000- 10,000m ²	J	F	M	A	M	J	J	A	S	O	N	D
BRU Turf-POST	8L	120-160ml in 25L water	12-20L in 250- 600L water	4,000- 6,666m ²	J	F	M	A	M	J	J	A	S	O	N	D
BRU Turf-FIX	10L	10ml in 25L water	10L in 250L+ water	10,000m ²	J	F	M	A	M	J	J	A	S	O	N	D
BRU Plus	10L	300-400ml in 8-14L water	30-40L in 750- 1400L water	10,000m ²	J	F	M	A	M	J	J	A	S	O	N	D
Enhance C Soil Conditioner 2.6-1-1	20kg	Application rate 30g/m ²	10-12 week release	666m ²	J	F	M	A	M	J	J	A	S	O	N	D

Fungicides



Ascernity (MAPP 19544)

Ascernity delivers powerful SDHI chemistry together with another trusted active for turf, difenoconazole. Together they deliver reliable dual action preventative and curative control for Fusarium Patch (Microdochium nivale), Dollar Spot (Sclerotinia homoeocarpa) and Anthracnose (Colletotrichum graminicola) on Golf Greens, tees and fully enclosed professional sports turf.



- Active ingredient: 23.6g/l Benzovindiflupyr, 78.9g/l Difenoconazole
- Mode of action: Dual systemic
- When to use: Preventative
- Controls: Fusarium Patch, Dollar Spot and Anthracnose
- Uses: Golf Tees & Greens & enclosed professional sports turf
- Maximum applications per year: 2
- Activity group: DMI & SDHI
- Rainfastness: 2 hours

FR321

The optimum tank-mix combination and rates for when you need the powerful balance of contact and systemic fungicide activity in one application - plus the colour and turf quality advantage of Ryder



- Products in package Heritage, Medallion and Ryder
- Mode of action: Contact and Systemic
- Activity group: Strobilurin and Phenylpyrrole
- When to use: Preventative and curative
- Uses: Managed amenity turf
- Rainfastness: 1 Hour
- Maximum applications per year: 2

Instrata Elite (MAPP 17976)

A broad spectrum foliar fungicide with both contact and systemic properties for control of Microdochium (Fusarium) Patch (Microdochium nivale), Dollar Spot (Sclerotinia homeocarpa), Brown Patch (Rhizoctonia solani) and moderate control of Anthracnose (Colletotrichum graminicola) on managed amenity turf.



- Active ingredient: 80.3 g/l Difenoconazole, 80.3 g/l Fludioxonil
- Mode of action: Contact and Systemic
- Activity group: DMI
- When to use: Preventative and curative
- Controls: Fusarium Patch, Dollar Spot, Brown Patch, Red Thread and Anthracnose
- Uses: Managed amenity turf
- Rainfastness: 30 minutes
- Maximum applications per year: 2

Medallion TL (MAPP 15287)

A fast acting bio-inspired fungicide with Contact+ activity that delivers outstanding levels of disease control and exceptional long-term results. It's Contact+ activity tackles damaging pathogens on the leaf, thatch and soil surface to use the fungicidal activity of the active ingredient with maximum efficiency. Ideal for use when soil temperatures are below 7°C.



- Active ingredient: 125g/L Fludioxonil
- Mode of action: Contact
- Activity Group Phenylpyrrole
- When to use: Preventative and early curative
- Controls: Fusarium Patch, Leaf Spot, Anthracnose
- Uses: Golf, Bowls, Tennis, Cricket, Stadia, Sportsfields, Municipal Grounds
- Rainfastness: 1 hour
- LERAP B
- Maximum applications per year: 4

Heritage (MAPP 13536)

Heritage is an effective systemic fungicide, providing control of seven diseases in managed established amenity turf and amenity grassland.



- Active ingredient: 500g/kg Azoxystrobin
- Mode of action: Systemic Strobilurin
- Activity Group Strobilurin
- When to use: Preventative, curative and eradivative
- Controls: Fusarium Patch, Take All Patch, Brown Patch, Leaf Spot/ Melting Out, Rust, Anthracnose, Type 2 Fairy Ring
- Golf, Bowls, Tennis, Cricket, Stadia, Sportsfields, Municipal Grounds
- Rainfastness: 1 hour
- Maximum applications per year: 4

WARNING: USE PLANT PROTECTION PRODUCTS SAFELY. ALWAYS READ THE LABEL, DOUBLE CHECK APPLICATION RATES AND PRODUCT INFORMATION BEFORE USE

Product	Pack Size	Small Sprayer Treating 100m ²	Powered Sprayer Treating 10,000m ²	Coverage (m ²)	Nozzles	Usage Period (Month)											
						J	F	M	A	M	J	J	A	S	O	N	D
Ascernity (MAPP 19544)	3L	30ml in 3-5L water	3L in 125-500L water	10,000 m ²	Syngenta XC 025, 04	J	F	M	A	M	J	J	A	S	O	N	D
FR321	0.3Kg +3L	30ml in 4L water	3L in 400L water	10,000 m ²	Syngenta XC 04	J	F	M	A	M	J	J	A	S	O	N	D
Instrata Elite (MAPP 17976)	1 / 3L	30ml in 3-5L water	3L in 125-500L water	1L: 3,333m ² 3L: 10,000m ²	Syngenta XC 025, 04	J	F	M	A	M	J	J	A	S	O	N	D
Heritage (MAPP 13536)	100 / 500g	5g in 10L water	500g in 125-1,000L water	100g: 2000 m ² 500g: 10,000m ²	Syngenta XC 025, 04, 08	J	F	M	A	M	J	J	A	S	O	N	D
Medallion TL (MAPP 15287)	1 / 3L	30ml in 3-5L water	3L in 125-500L water	1L: 3,333m ² 3L: 10,000m ²	Syngenta XC 025, 04	J	F	M	A	M	J	J	A	S	O	N	D

Selective Herbicides



Icade (MAPP 19069)

A tough weed herbicide for use in amenity grassland and non-crop areas. ICADE is effective against a wide range of tough and invasive weeds including Japanese Knotweed, Hogweed and Buddleia.

- Active ingredient: 12g/L Aminopyralid and 120g/L Triclopyr
- Mode of action: Systemic
- Areas of use: Variable
- Rainfastness: 1 Hour



Enforcer (MAPP 17274)

A selective herbicide which targets a wide range of turf weeds. The special formulation allows uptake through both the leaves and the roots providing exceptional weed control. Enforcer contains 4 active ingredients to ensure a wide range of weed control.

- Active ingredient: 70g/L 2,4-D, 70g/L MCPA, 42g/L Mecoprop-P and 20g/L Dicamba
- Controls: Speedwell, White Clover, Daisy, Shepherds Purse, Field Forgetme-not, Deadnettle, Dandelion, Self Heal, Creeping Buttercup, Yarrow, Broad-Leaved Dock, Corn Chamomile
- Maximum applications per year: 1



Stapler (MAPP 19781)

An economical selective herbicide for the control of many broadleaved weeds including Ragwort in managed amenity turf and amenity grassland situations, such as golf courses, playing fields, roadside verges and ornamental lawns.

- Active ingredient: 500g/L 2,4-D
- Controls: Buttercup, Mouse-ear hawkweed, plantains, Thrift, Common Ragwort, Cats-Ear, Common Chickweed, Common Sorrel, Curled dock, Daisy, Dandelion, Dwarf thistle, Hawkbits, Heath bedstraw, Marsh pennywort, sea-milkwort, Sheep's sorrel, Smooth hawks-beard, storks-bill
- Maximum applications per year: 3



Lawnclear 2 RTU (MAPP 15195)

Powerful three-way mix of herbicides in a ready-to-use spray which is ideal for spot treatment of individual weeds or small areas of fine turf. Adjust spray nozzle to required spray pattern and pump the trigger firmly to cover the weed without run-off.

- Active ingredient: 0.26g/L Clopyralid, 1.13g/L 2,4-D and 1.31g/L MCPA
- Controls: Broad-leaved Plantain, Ribwort Plantain, Creeping Buttercup, White Clover, Dandelion and Daisy
- Areas of use: Lawns and Fineturf



WARNING: USE PLANT PROTECTION PRODUCTS SAFELY. ALWAYS READ THE LABEL, DOUBLE CHECK APPLICATION RATES AND PRODUCT INFORMATION BEFORE USE

Holster XL (MAPP 16407)

Holster XL is a premium selective post-emergence herbicide for the control of a range of broad- leaved weeds in amenity turf including fine turf. The reason Holster XL is more effective because it contains a combination of three powerful killing ingredients that provide effective weed control with low application rates. It works by getting right down to the root of the weed, destroying the root, resulting in no weed re-growth. Although it is tough on weeds it is gentle on your grass – in fact it's approved for use on newly sown grass after just two months due to it's excellent grass safety. Can be tank mixed with the Vision Nutri-Smart Liquid NPK fertilisers for convenience.



- Active ingredient: 105g/L Fluroxypyr, 285g/L 2,4-D, 52.5g/L Dicamba
- Controls: Cat's Ear, Common Mouse Ear, Mouse Ear Hawkweed, Creeping Buttercup, Plantain, Selfheal, Common Sorrel, Slender Speedwell, Daisy, White Clover, Dandelion, Yarrow, Chickweed, Lesser Trefoil
- Maximum applications per year: 2

Praxys (MAPP 18953)

A selective weedkiller with three active ingredients to provide control right down to the roots. Rapid entry and rainfast within one hour which gives a wide range of weed control.

- Active ingredient: 144g/L Fluroxypyr-meptyl, 80g/L Clopyralid and 2.5g/L Florasulam
- Controls: Daisy, Ribwort Plantain, Creeping Buttercup, White Clover, Black Medick, Slender Speedwell
- Maximum applications per year: 1



WARNING: USE PLANT PROTECTION PRODUCTS SAFELY. ALWAYS READ THE LABEL, DOUBLE CHECK APPLICATION RATES AND PRODUCT INFORMATION BEFORE USE

Product	Pack Size	Small Sprayer Treating 100m ²	Powered Sprayer Treating 10,000m ²	Coverage (m ²)	Usage Period (Month)											
					J	F	M	A	M	J	J	A	S	O	N	D
Holster XL (MAPP 16407)	2L	20ml in 10L water	2L in 200-1,000L	10,000 m ²	J	F	M	A	M	J	J	A	S	O	N	D
Praxys (MAPP 18953)	2L	20ml in 10L water	2L in 200L	10,000 m ²	J	F	M	A	M	J	J	A	S	O	N	D
Icade (MAPP 19069)	1L	150-200ml in 10L water	2-4L in 300-600L water	1L: 2,500-5,000m ²	J	F	M	A	M	J	J	A	S	O	N	D
Enforcer (MAPP 17274)	5L	75ml in 10L water	7.5L in 1,000L water	6,666m ²	J	F	M	A	M	J	J	A	S	O	N	D
Stapler (MAPP 19781)	10L	28ml in 7L water	2.8-3.3L in 100-1000L water	30,303 - 34,714m ²	J	F	M	A	M	J	J	A	S	O	N	D
Lawnclear 2 RTU (MAPP 15195)	750ml	-	-	Variable	J	F	M	A	M	J	J	A	S	O	N	D

Total Herbicides



Gallup Biograde Amenity (MAPP 17674)

A foliar applied translocated herbicide for the control of emerged weeds in industrial situations, forestry and aquatic areas. Gallup Biograde Amenity is classified as non-hazardous for COSHH assessment.

- Active ingredient: 360g/L Glyphosate
- Mode of action: Contact and systemic
- Areas of use: Amenity vegetation, enclosed water, forest, hard surfaces, land immediately adjacent to aquatic areas, natural surfaces not intended to bear vegetation, permeable surfaces overlying soil, open waters



Gallup Home & Garden (MAPP 17672)

A foliar applied translocated herbicide for the control of emerged weeds in the home and garden it is classified as non-hazardous.

- Active ingredient: 360g/L Glyphosate
- Mode of action: Contact and systemic
- Areas of use: Home and garden areas



Gallup Hi-Aktiv Amenity (MAPP 17681)

Gallup Hi-Aktiv Amenity is a non hazardous systemic herbicide, as a soluble concentrate, for the control of most broad-leaved and grass weeds. It is a contact-only herbicide controlling weeds present at the time of application but not subsequent germination of weeds. This formulation is a very concentrated formulation allowing for larger areas to be treated by a single pack.

- Active ingredient: 490g/L Glyphosate
- Mode of action: Contact and systemic
- Areas of use: Amenity vegetation, enclosed water, forest, hard surfaces, land immediately adjacent to aquatic areas, natural surfaces not intended to bear vegetation, permeable surfaces overlying soil, open waters



Lockstar (MAPP 19101)

A total herbicide for the pre-emergence and early post-emergence control of annual and perennial weeds on natural surfaces not intended to bear vegetation and permeable surfaces overlying soil.

- Active ingredient: 360g/kg diflufenican and 10g/kg iodosulfuron-methyl-sodium, a sulfonyleurea
- Mode of action: Residual, contact and systemic
- Areas of use: Natural surfaces not intended to bear vegetation and permeable surfaces overlying soil



Proshield (MAPP 17525)

A barrier acting non-selective total herbicide for the control of a wide range of annual and perennial broad-leaved weeds and grasses on soft and gravel surfaces in amenity situations. One application give up to 6 months control and the formulation is non-hazardous.

- Active ingredient: 40 g/L Diflufenican and 250 g/L Glyphosate
- Mode of action: Residual, contact and systemic
- Areas of use: Natural surfaces not intended to bear vegetation and permeable surfaces overlying soil
- Rainfastness: 1 Hour
- LERAP B
- Maximum applications per year: 1



Roundup ProVantage (MAPP 15534)

A concentrated non-hazardous glyphosate for rapid and long lasting control of difficult perennial weeds.

- Active ingredient: 480 g/L Glyphosate
- Mode of action: Contact and systemic
- Areas of use: Amenity, industrial, aquatic and forestry situations
- Rainfastness: 1 Hour



Roundup ProActive (MAPP 17380)

Roundup ProActive has evolved from Roundup ProBiactive, which has been a market leading Glyphosate product for almost twenty years. It is a non-hazardous this makes it easier for Local Authorities, estate managers, green keepers and parks managers to comply with the legislative and Best Practice requirements to use low risk products.

- Active ingredient: 360 g/L Glyphosate
- Mode of action: Contact and systemic
- Areas of use: Amenity, industrial and forestry situations, including: hard surfaces, tree bases, invasive weeds, amenity vegetation, stem injection and aquatic use.
- Rainfastness: 1-4 Hours



Ecoplug Max (MAPP 17581)

An effective treatment for tree stumps to control unwanted re-growth. Each plug contains granular glyphosate to kill the whole root system of targeted trees. The plugs are inserted into the stump via drill holes. This revolutionary product is highly effective and delivers 95-100% control of the treated stumps.

- Active ingredient: 300mg Glyphosate
- Mode of action: Systemic
- Areas of use: Tree stumps Coverage Variable



WARNING: USE PLANT PROTECTION PRODUCTS SAFELY. ALWAYS READ THE LABEL, DOUBLE CHECK APPLICATION RATES AND PRODUCT INFORMATION BEFORE USE

Product	Pack Size	Small Sprayer Treating 100m ²	Powered Sprayer Treating 10,000m ²	Coverage (m ²)	Usage Period (Month)											
Gallup Biograde Amenity (MAPP 17674)	5L	40-100ml in 3-4L water	4-10L in 250L water	5,000-12,500m ²	J	F	M	A	M	J	J	A	S	O	N	D
Gallup Home & Garden (MAPP 17672)	1L	40-100ml in 3-4L water		1,000-2,500m ²	J	F	M	A	M	J	J	A	S	O	N	D
Gallup Hi-Aktiv Amenity (MAPP 17681)	5L	36-73ml in 3-4L water	3.6-7.3L in 250L water	6,850-13,889m ²	J	F	M	A	M	J	J	A	S	O	N	D
Lockstar (MAPP 19101)	500g	5g in 3-5L water	500g in 300-500L water	10,000 m ²	J	F	M	A	M	J	J	A	S	O	N	D
Proshield (MAPP 17525)	5L	45ml in 4.5L water	4.5L in 200-400L water	11,000 m ²	J	F	M	A	M	J	J	A	S	O	N	D
Roundup ProVantage (MAPP 15534)	5L	40-80ml in 8-25L water	4-8L in 150-250L water	6,300-12,500m ²	J	F	M	A	M	J	J	A	S	O	N	D
Roundup ProActive (MAPP 17380)	5L	30-50ml in 1-2L water	3-5L in 100-200L water	11,110m ²	J	F	M	A	M	J	J	A	S	O	N	D
Ecoplug Max (MAPP 17581)	100 x 300 mg plugs	-	-	Variable	J	F	M	A	M	J	J	A	S	O	N	D

Nomix Dual (MAPP 18351)

The only residual herbicide approved for use on both hard and soft surfaces. Nomix Dual is a non-irritant, Total Droplet Control (TDC) formulation. There is no mixing with Nomix Dual, as it is ready to use.



- Active ingredient: 162g/l Glyphosate and 2.22g/l Sulfosulfuron
- Mode of action: Contact and systemic
- Areas of use: Amenity, industrial and forestry situations, including: hard surfaces, tree bases, fence lines, shrub beds and gravel areas

Nomix Hilite (MAPP 18352)

Hilite controls broad-leaved weeds, along with annual and perennial grasses in amenity and industrial areas, including parks, highways, paved areas and factory sites. It is also effective for clearing vegetation prior to planting, around tree bases, around ornamental species, shrubs and roses, as well as in forestry situation. There is no mixing with Nomix Hilite, as it is ready to use.



- Active ingredient: 194g/l Glyphosate
- Mode of action: Contact and systemic
- Areas of use: Amenity, industrial and forestry situations, including: hard surfaces, tree bases, fence lines, shrub beds and gravel areas
- Rainfastness: 1 Hours

Chikara (MAPP 14189)

Chikara is a residual herbicide to control pre-emerged weeds on soft surfaces only. It cannot be used on hard surfaces. To control emerged weeds, Chikara can be mixed with an approved glyphosate and applied when the plant is actively growing.



- Active ingredient: 25% w/w Flazasulfuron
- Mode of action: Contact and systemic
- Areas of use: Natural surfaces not intended to bear vegetation

WARNING: USE PLANT PROTECTION PRODUCTS SAFELY. ALWAYS READ THE LABEL, DOUBLE CHECK APPLICATION RATES AND PRODUCT INFORMATION BEFORE USE

Product	Pack Size	Small Sprayer Treating 100m ²	Powered Sprayer Treating 10,000m ²	Coverage (m ²)	Usage Period (Month)											
					J	F	M	A	M	J	J	A	S	O	N	D
Nomix Dual (MAPP 18351)	4x750ml	-	-	Variable	J	F	M	A	M	J	J	A	S	O	N	D
Nomix Hilite (MAPP 18352)	4x750ml	-	-	Variable	J	F	M	A	M	J	J	A	S	O	N	D
Chikara (MAPP 14189)	50g	1.5g in 2L water	150g in 200L water	50g: 3333m ²	J	F	M	A	M	J	J	A	S	O	N	D

Aquatic Herbicides & Products



There are only a few aquatic herbicides left on the market, these products are glyphosate based for the control of emergent and floating weeds. The products available are listed below and more information can be found on them in the total herbicide section on page 68-69 Gallup Biograde Amenity / Gallup Hi-Aktiv / Roundup ProActive / Roundup ProVantage

Byofix Beneficial Bacteria

Byofix Beneficia Bacteria powder is natural beneficial bacteria which cleans the organic pollutants in the Pond. Initial Dosage for ponds with heavy concentrations of rotting vegetations and silt: 3 kgs (15 packs) per Acre.

Maintenance: 2 kgs (10 packs) per Acre every 15 days until obvious signs of improvement are seen

Pack Size: 3Kg (15x200g) water soluble sachets

Dyofix Pond Black

Dyofix Pond Black gives a black mirror finish that controls algae and submerged aquatic weeds.

Pack Size: 1Kg

WARNING: USE PLANT PROTECTION PRODUCTS SAFELY. ALWAYS READ THE LABEL, DOUBLE CHECK APPLICATION RATES AND PRODUCT INFORMATION BEFORE USE

Growth Regulators



Primo Maxx II (MAPP 17509)

A plant growth regulator that improves the performance and quality of the turf, as well as reducing the level top growth. It works by diverting plant growth into lateral stem development as well as enhancing the root system. It can be used on all types of managed turf.

- Active ingredient: 116.4g/L Trinexapac-ethyl
- Rainfastness: 1 Hour

WARNING: USE PLANT PROTECTION PRODUCTS SAFELY. ALWAYS READ THE LABEL, DOUBLE CHECK APPLICATION RATES AND PRODUCT INFORMATION BEFORE USE



Product	Pack Size	Small Sprayer Treating 100m ²	Powered Sprayer Treating 10,000m ²	Coverage (m ²)	Nozzles
Primo Maxx II (MAPP 17509)	5L / 10L / 20L	2-24ml in 3-10L water	0.2-2.4L in 300-1,000L water	5L: 5,700-11,700m ² 10L: 11,400-23,400m ² 20L: 22,800-46,800	Syngenta XC 025, 04

Insecticides



Acelepryn (MAPP 20149)

Use for the control of chafer grubs and leatherjackets in sports pitches, golf greens, tees and fairways, golf roughs, racecourses and gallops, bowling greens, airfields, and professional application to commercial and residential lawns, subject to specific restrictions on the percentage of the area being treated.

- Can be used for control of Chafer Grubs & Leatherjackets
- Apply preventatively to coincide with egg hatch & early stages of activity
- Chaffer Grubs apply approx. May - End June
- Leatherjacket apply approx. September - October



Product	Pack Size	Application Rate	Coverage (m ²)	Usage Period (Month)									
Acelepryn	600ml / 3Ltr	0.6L in 500-600L water to treat 10,000m ²	600ml 10,000m ² / 3L 50,000m ²	J	F	M	A	M	J	J	A	S	O

A RANGE OF BIOLOGICAL PRODUCTS ARE ALSO AVAILABLE, PLEASE CONTACT US FOR MORE DETAILS.

PLEASE CHECK WITH US FOR THE LATEST PRODUCTS DUE TO AN EVER-EVOLVING MARKET

WARNING: USE PLANT PROTECTION PRODUCTS SAFELY. ALWAYS READ THE LABEL, DOUBLE CHECK APPLICATION RATES AND PRODUCT INFORMATION BEFORE USE



Spray Indicators, Adjuvants, Spraying Aids & Colourants

Deva Foam Boutmarker

- Highly concentrated foam boutmarker
- Developed to produce stable, long life, foam marks
- Low application rate
- Cost effective



Spray Tank Cleaner

- Dual action to remove stubborn residues
- Powerful blend of detergents and a “neutraliser” to strip out residues
- Cleans tanks, nozzles, filters, hoses and booms
- Helps keep equipment working at maximum efficiency
- Contains ammonia to render any pesticide residues ineffective



Spray Tank Defoamer

- Eradicates tank foam instantly and prevents foam re-forming
- Highly concentrated silicone emulsion in a handy trigger spray
- Speeds up tank filling operations
- Prevents potentially harmful foam spillages
- Very cost effective



Ryder

- A green turf pigment that protects turf from harmful UV rays and excessive light
- Colour that can be tailored to your turf demands
- Rainfast in 1 hour
- Use in all turf situations



WARNING: USE PLANT PROTECTION PRODUCTS SAFELY. ALWAYS READ THE LABEL, DOUBLE CHECK APPLICATION RATES AND PRODUCT INFORMATION BEFORE USE

Product	Pack Size	Small Sprayer Treating 100m ²	Powered Sprayer Treating 10,000m ²	Coverage
Vision MixMe	5L	10ml in 10L spray solution	1L in 100L spray solution	5L: 500L spray solution
Blazon	3.75L / 9.5L	2.5ml in 1L spray solution	100-250ml in 100L spray solution	3.75L: 1,500-3,750L spray solution, 9.5L: 3,800-9,500L spray solution
Deva Foam Boutmarker	2.5L	Variable	Variable	2.5L : 101,000m ²
Spray Tank Cleaner	1L	100ml in 20L spray solution	500ml in 100L spray solution	1L: 200L spray solution
Spray Tank Defoamer	1L Trigger Spray	Variable	Variable	1L: Variable
Ryder	1L / 5L	10ml in 3.5L to treat 100m ²	0.5-2L/Ha in 250-500L to treat 10,000 m ²	1L: 5,000-20,000L spray solution, 5L 25,000-100,000L spray solution

Vision MixMe

A liquid spray enhancer that is designed to ensure maximum leaf up take of liquid fertilisers, biostimulants and other turf management products.

- Contains Humectant to improve uptake in hot dry conditions
- Spreading and penetrants ensure complete coverage and penetration of the product
- Complexing, chelating and compatibility agents help stabilise the solution
- Improves rain fastness
- Highly compatible with other turf management products



Blazon

- Blazon spray pattern indicator is a patented non-staining blue colourant (not a dye) designed to be used with pesticide, fertiliser and / or plant growth regulator tank mixes.
- Blazon provides visual assurance that these solutions are uniformly applied, with minimum overlap and no missed areas.
- Blazon helps to alert the operator to improper equipment operation: the blue colour immediately indicates line and / or connection leaks and clogged nozzles.
- Blazon is an excellent safety tool: the blue colour provides real time feedback in the event of operator exposure to the solution.



Vision Wetting Agents



Vision Hydroguard

This proprietary blend of soil surfactant technology is designed to be used as a preventative. It will provide uniform re-wetting and the ideal water to air ratio in the rootzone to prevent dry patch and hydrophobic soils. The added Biostimulants will help the plant cope with increased stress resistance and root boosting stimulation.

Surfactants - The three surfactants combined also achieve total water management by Increasing water efficiency ensuring water is deeply penetrated into the rootzone, reducing surface run off and therefore less evaporation of applied water.

Hydroguard contains a range of high molecular mass chemistries that are resistant to being flushed out of the rootzone by irrigation water, which enables the chemistry to perform more consistently over a longer period. This ensures correct water management within the rootzone enabling a longer period of water conservation and stress reduction on the turfgrass.

Biostimulants (RSi) - RSi biostimulant contains L-Form amino acids, the addition of L amino acids allows the plant to save energy during periods of stress and can function as normal. The unique biostimulant within Hydroguard also contains a systemic blend of simple carbohydrates and natural trace elements, this results in significant increase in root length and root hair development



Benefits:

- Triple action surfactant formulation, preventative, curative and water conservation properties
- More than just a soil surfactant; a comprehensive water and stress relief management tool
- Blend of soil surfactants chain lengths to increase the longevity and the cumulative treatment effect
- Creates a firmer playing surface with less moisture held in the thatch layer
- Contains L-form amino acids for increased stress resistance and improved seed germination
- Contains RSi (Root Stimulant and Improver) biostimulant to increase vigour, root depth and root length
- Penetrant technology keeps the upper playing surface firm, whilst maintaining uniform re-wetting of the rootzone
- Mode of action: 3 way – penetrant, spreading and rewetting
- When to use: Curative, preventative

Vision Hydrosolve

Hydrosolve is a curative surfactant, which has a unique blend of surfactants and organic acids.

These are specifically designed to remove the cause of water repellency issues in areas of localized dry patch and remove waxy mycelium deposits from fairy rings.

Water repellency is caused by the waxy lipids that coat sand and soil particles making them hydrophobic. Hydrosolve works directly on the build-up of these hydrophobic waxes and lipids coating the soil particles as it contains an organic acid. These acids act with a mild cleansing action on the hydrophobic coatings, increasing the number of sites available for re-hydrating.

Hydrosolve contains surfactants that keep these hydrophobic materials in solution, hence they cannot re-attach themselves back to the sand or soil particles and can then be flushed through the rootzone; removing this build up and reinstating the soils natural water holding capacity. In addition the surfactants will also restore the rootzones optimal moisture levels.



Benefits:

- A rapid long lasting, effective curative treatment
- Acts directly on the cause of dry patch
- Reduces grass wilt and aids recovery of stressed turf
- Use as part of a dry patch management program with Hydroguard wetting agent
- Extremely safe to all types of turfgrass
- Safe to soil microbes
- Ideal for hydrophobic environments caused by fairy rings.
- Mode of action: 3 way – penetrant, spreading and rewetting
- When to use: Curative

Product	Pack Size	Small Sprayer Treating 100m ²	Powered Sprayer Treating 10,000m ²	Coverage (m ²)
Vision Hydroguard	5L / 20L / 120L / 200L	200ml in 8L water	20L in 600-1,000L water	5L: 2,500m ² / 20L: 10,000m ² / 120L: 60,000m ² / 200L: 100,000m ²
Vision Hydrosolve	5L	200ml in 8L water	20L in 600-1,000L water	10,000m ²

THE VISION RANGE OF LIQUIDS CAN BE TANK MIXED FOR YOUR CONVENIENCE (SEE THE TANK MIXING COMPATIBILITY CHART ON PAGE 94)

Nozzle Guide	Hypro Nozzle				Hardi Nozzle			
	Spray Quality	Type	Colour	Code	Spray Quality	Type	Colour	Code
Power Sprayer	Coarse	Flat fan	White	F110-08	Coarse	Flat fan	White	FF08 110
Knapsack (boom)	Coarse	Flat fan	Brown	F80-05	Medium	Flat fan	Red	04 E80
Knapsack (single jet)	Coarse	Flood jet	White	DT 4.0	Coarse	Flood jet	Red	AN 2.4

This chart is produced as a guide only.

Vision Hydrosport

Hydrosport Surfactant contains 3 different surfactants giving spreading, penetrating and rewetting. The product has been formulated for the longer grass associated with fairways and outfield areas. This product will outperform other fairway and sportsfield penetrant products which are designed only to flush water down through the profile quickly. These types of products will therefore not allow the rewetting or spreading of any available moisture in the rootzone for the plant to use.

- Conserves water that is lost through surface evaporation while optimizing water performance from irrigation or rainfall.
- Reduces disease potential and cost associated with poor turf performance.
- Compatible in a tank mix with other Vision products.
- Three modes of action - now available for a fairway and sportsfield product.
- Same technologies as used in greens grade wetting agents.
- Economical application with easy water volumes.
- Mode of action: 3 way – penetrant, spreading and rewetting
- When to use: Curative, preventative



Vision Hydrofusion

A hybrid dual action granular surfactant that has been designed to provide rapid long lasting effective curative treatment for dry patch.

The preventative surfactant will allow you to use the product in a programmed approach for maximum protection.

The curative surfactant will promote rapid recovery and restore stressed turf.

Ideal to use on greens and tees, spot treating hollows, humps and banks. Apply using a conventional spreader, by hand or a shaker pack. Spiking of the turf prior to application will enhance performance. Water after application to wash into the soil.

- Dual action granular surfactant
- Preventative surfactants for maximum protection ideal to use in a programme
- Curative surfactants to promote rapid recovery of dry patch and stressed turf
- Can be used in all turf situations
- Dust Free Granule
- Mode of action: 3 way – penetrant, spreading and rewetting
- When to use: Curative, preventative



Vision Hydrosolve Hose End Tablets

A curative surfactant pellet containing Hydrosolve soil surfactant formulated for use through hose end pellet applicators (See Hydrosolve Gun P79). This product ensures quick even penetration into the most hydrophobic of soils. These are ideal for hand watering high spots or other areas prone to extreme stress.



- For use in hose end applicator guns
- Use for spot treating
- Excellent coverage
- Help remove the cause of water repellency issues
- Mode of action: 3 way – penetrant, spreading and rewetting
- When to use: Curative

Vision Hydrosolve Irrigation Tank Tablet

A curative surfactant pellet formulated for use through irrigation tanks. Use a 3Kg tablet per 2500Ltr irrigation tank to treat approximately one hectare. Re-apply every two to three weeks during summer. Coverage is only a guide and is affected by water temperature, flow rates and tank size.



- Ideal for fairways and tees
- Easy way to apply to large areas
- Re-apply every 2-3 weeks during summer
- Mode of action: 3 way – penetrant, spreading and rewetting
- When to use: Curative

Vision Hose End Applicator

A hose end applicator gun designed for the application of wetting agent tablets. This heavy duty applicator provides powerful, yet ultra-soft spray when applying surfactants to tight hydrophobic soils.

- Heavy duty construction
- Ideal for use with Vision Hydrosolve Hose End tablets
- Ideal for spot treating



Nozzle Guide	Hypro Nozzle				Hardi Nozzle			
	Spray Quality	Type	Colour	Code	Spray Quality	Type	Colour	Code
Power Sprayer	Coarse	Flat fan	White	F110-08	Coarse	Flat fan	White	FF08 110
Knapsack (boom)	Coarse	Flat fan	Brown	F80-05	Medium	Flat fan	Red	04 E80
Knapsack (single jet)	Coarse	Flood jet	White	DT 4.0	Coarse	Flood jet	Red	AN 2.4

This chart is produced as a guide only.

Product	Pack Size	Small Sprayer Treating 100m ²	Powered Sprayer Treating 10,000m ²	Coverage (m ²)
Vision Hydrosport	120L / 200L	100ml in 6L water	10L in 400-600L water	120L: 120,000m ² / 200L: 200,000m ²
Vision Hydrofusion	15Kg	-	-	500-1500m ² per 15Kg
Vision Hydrosolve Hose End Tablets	6 x 250g tablets	-	-	1,500m ² per tablet
Vision Hydrosolve Irrigation Tank Tablet	3kg tablet	-	-	10,000m ² per tablet

THE VISION RANGE OF LIQUIDS CAN BE TANK MIXED FOR YOUR CONVENIENCE (SEE THE TANK MIXING COMPATIBILITY CHART ON PAGE 94)



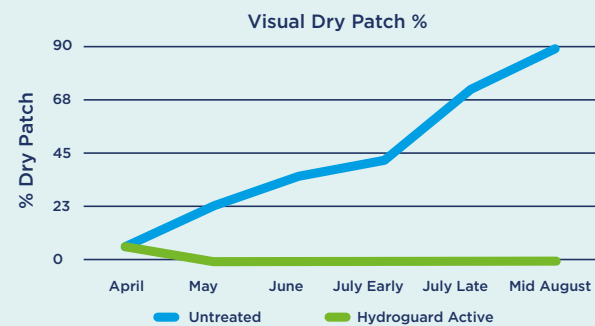
Wetting Agents - Hydroguard Trials

As with any Vision product brought to the range we carry out trials to make sure the products meet the high standards we demand to make the range. The trials do not stop there, we keep going to find out different ways the products can be used to help your requirements.

Hydroguard - Wetting agent trials

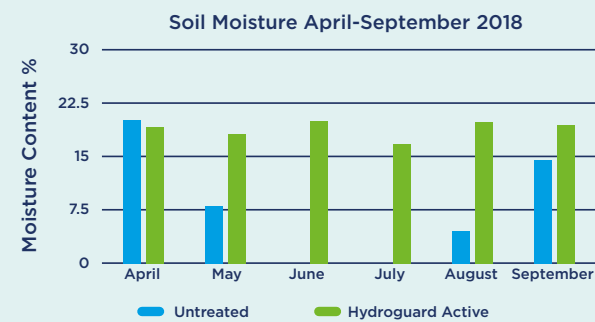
Trial Data

A randomized, replicated trial, was conducted within the UK between April and September 2018. The trials were undertaken on a Links course, which was naturally water repellent fine turf with significant fairy ring activity. Hydroguard was applied at 20Ltr per ha in 700Ltr water Ha with no watering in after application on a monthly basis.



Conclusion: Hydroguard reduced visual dry patch to 0% compared to the untreated area which increased throughout the summer period.

Soil Moisture Assessment



Conclusion: Hydroguard increased water holding capacity within the rootzone to retain a moisture content between 17-20% throughout the drought period. Whereas the soil moisture within the untreated plots reduced to zero, this demonstrates the severe drought stress upon the trial plots.

Conclusion: Hydroguard dramatically reduced water

infiltration time within the treated rootzone compared to untreated plots. M.E.D (Molar Ethanol Droplet) value of the treated soil was typically between 0 - 0.5, this highlights that there is no soil water repellency when using Hydroguard. Untreated plots had a M.E.D value of 3.5 - 4, which equates to a severely water repellent soil.

Hydroguard - Seed germination trials

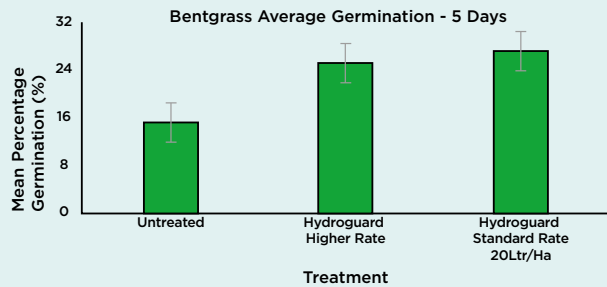


Figure 1. The average percentage of bentgrass seed that had germinated five days after treatment. Both rates of Hydroguard treatment gave faster and more uniform germination than untreated seeds during the initial imbibition period.

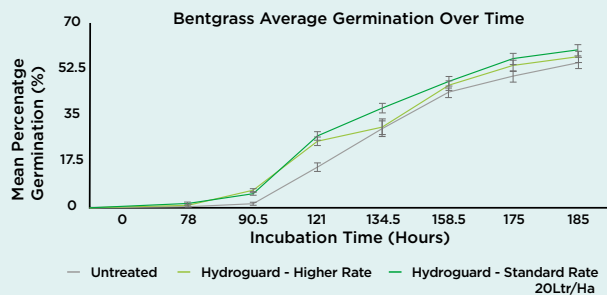


Figure 2. The average percentage germination of bentgrass over an eight-day period for untreated seeds and those grown with Vision Hydroguard at two different application rates.

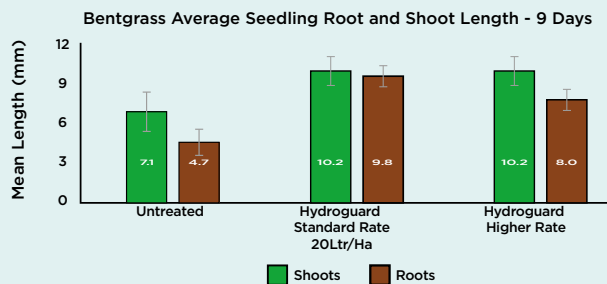


Figure 3. The average root and shoot length of ten randomly selected bentgrass seedlings from each treatment. Seedlings were measured 9 days after sowing onto the filter paper.

These data trials show why Hydroguard offers the turf manager so many more possibilities than many other wetting agents on the market today.

Aqueduct

Designed for use where a programmed approach has not been selected. Ideal for localised stressed areas, dry spots and hydrophobic banks. It offers a curative mode of action which can be used by hydraulic, knapsack sprayer or via the dilute 'n' shoot applicator.

- Use on all turf areas
- Will not scorch or burn
- Requires no watering in
- When to use: Curative
- Mode of action: Penetrant



Zipline

With AquaVita technology to improve water infiltration from the surface through the rootzone and aids soil enhancement by unlocking existing bound nutritional elements.

- For use on outfield areas
- Helps improve water infiltration
- Contains Aquavita
- When to use: Preventative
- Mode of action: Penetrant and balanced hydration



H2Pro TriSmart

A wetting and water conservation agent with a triple-active formulation that will help control your moisture management.

- Evenly distributes moisture through the upper soil profile
- Three modes of action
- Suitable for all turf areas
- When to use: Curative and preventative
- Mode of action: Penetrant, Spreading and Holding



Qualibra

A wetting and water conservation agent that optimises water penetration then distributes it deep and evenly through the rootzone.

- Maintains plant health and playing surface quality
- Prevents damaging dry patch developing
- Makes better use of irrigation resources
- When to use: Preventative
- Mode of action: Penetrant, spreading



Revolution

A treatment for dry patch which will also extend the turfs antioxidant activity and help balance air to water ratios in the soil profile. It has been carefully engineered to provide a solid foundation for successful turf management and is an essential tool for protecting turf against damage caused by environmental and cultural stresses.

- Programmed approach to dry patch
- Extends natural antioxidant activity
- Balances air-to-water ratio in the soil



Dispatch

Dispatch increases the penetration and infiltration of irrigation or rainfall, making it more readily available for plant uptake.

- Penetrant wetter for fairway use
- Economical to use
- Non scorch
- When to use: Curative
- Mode of action: Penetrant



H2Pro FlowSmart

A penetrant wetting agent that will reduce surface tension - providing excellent water infiltration and penetration.

- Helps surface water penetrate quickly
- Maximises the effectiveness of irrigation treatments
- Helps maintain year round playing surfaces
- When to use: Curative
- Mode of action: Penetrant



Product	Pack Size	Small Sprayer Treating 100m ²	Powered Sprayer Treating 10,000m ²	Coverage (m ²)
Aqueduct	10L	250ml in 4L water	25L in 500L water	10L: 10,000m ²
Revolution	10L / 208L	190ml in 8L water	19L in 800L water	10L: 5,263m ²
Zipline	10L	190ml in 4L water	6.5-19L in 190L+ water	10L: 5,263-15,384m ²
Dispatch	10L	60ml in 6L water	2-6L in 200-600L water	25L: 41,666-125,000m ²
H2Pro TriSmart	5L	100ml in 10L water	10L in 600-1,000L water	5L: 5,000m ²
H2Pro FlowSmart	10L	100ml in 6L water	10L in 250-600L water	10L: 10,000m ²
Qualibra	10L	200ml in 10L water	20L in 500-1,000L water	10L: 5,000m ²

PLEASE CONTACT US FOR OUR FULL RANGE OF WETTING AGENTS.

Line Marking Materials



Vision Range

A range of quality line marking paints which have been tried and tested by professional groundsmen from many different sports. We have had some great results and therefore we decided to add the products to our renowned Vision range of products. Only products that are of the highest standards make it into the range.

Fleet Range

We are able to supply the complete range of Fleet line marking products. This range of paints are well known in the industry for quality and leading the market.

Line marking Aerosols

We offer a wide selection of line marking aerosols which are Xylene-free, solvent-based marking liquids that produce long lasting lines and marks economically and safely.

These can be used indoors or outdoors, on grass or all types of hard surface including tarmac, concrete, brick, synthetic grass, wood, metal and shale.

Vision Diamond Spray

- For use with spray and transfer wheel markers
- Premium quality with excellent surface adhesion on grass and artificial surfaces
- Exceptionally bright white line
- Rain resistant and long lasting

Initial marking 4:1
Overmarking up to 12:1
Pack size: 10 & 1,000L drums



Vision Pitchline

- For use with transfer wheel markers
- A quality line for clubs with limited budgets
- Provides a brighter longer lasting line than powders alone
- Easy dilution and mixing

Initial marking Neat
Overmarking Neat or 1:1
Pack size: 10 & 1,000L drums



Whitening Powder

- Dryline powder
- Wetline powder

Coverage variable
Pack size: 25kg

Fleet Range

- Pitchmarker B Plus
- Pitchmarker C
- Pitchmarker Super C
- Pitchmarker Q2
- Blinder
- Reddispray Plus
- Reddispray Colours
- Permanent Marking Fluid
- Fort



Linemarking Aerosols

- Excellent value for money
- Good quality and easy to use
- Available in a range of colours
- Can be used indoor or outdoor

Coverage variable
Pack size: 750ml



Line Marking Machines & Accessories

Kombi

The Kombi comes complete with the 'wheeled knib' attachment that gives adjustable line widths and a crisp, well-defined line with each marking. The heavy-duty battery and pump will give an 8-hour marking session before having to be re-charged. When used with Vision or Fleet's range of marking liquid there is no need for external mixing: the disperses into the water immediately in the 25 litre tank. At the end of the day's marking and, at the flick of a switch, the Kombi flushes clean water, drawn from it's rear water tank, through the nozzle assembly thus eliminating expensive pump and nozzle blockages.

- **Spray marker with 25L tank**
- **8 Hours from one charge**
- **Clean water flush system**
- **Athletic & spray boom available**



Transfer Wheel Markers

We offer a wide range of "box markers" to suit customers who do not want to use the spray line marking systems.

These machines are very robust and have we have a range of tank sizes and width of marking wheels.

- 2" Line marking wheels
- 3" Line marking wheels
- 4" Line marking wheels



Initial Marking Kit

The kit includes everything you will need to set out your given pitch.

- 10 x Initial Marking Kit Metal Posts
- 1 x Initial Marking Kit Triangle
- 1 x Initial Marking Kit Storage Bag
- 1 x Initial Marking Kit Guide Reel
- 1 x 500m Poly Wire Orange
- 1 x White Aerosol 750ml

Aerosol Applicators

We are able to offer 2 wheel applicators with adjustable line spray widths. These will fit our aerosol cans and can be used in a variety of situations from marking tarmac to ground under repair areas on turf.

- 2 Wheel applicator

FOR A FULL RANGE OF OUR LINEMARKING EQUIPMENT PLEASE CONTACT US.

Knapsacks and Sprayers



Vitax EvenSprey Professional

Battery powered, pedestrian operated spray machine designed for accurate and economical application of liquid fertilisers and other turf treatment products.

- 2 metre spray boom with a 2.5 metre spray width
- 50 litre tank
- 5 spray nozzles
- Spray head isolator function
- Multi nozzle spray heads
- Return to tank agitator
- Folding boom
- Athletic & spray boom available



Vitax EvenSprey Club

Battery-powered, pedestrian operated spray machine.

- Designed for accurate and economical application of liquid fertilisers and other treatments to turf
- 25 litre tank with 20 cm lid and filter
- Storage clip for the spray boom, which folds away for transportation
- Anti-flip tank stops
- 1500mm wide single independent spray boom
- Rechargeable 9 amp/hr 12v battery
- Comfy handlebar
- Improved filter system



Cooper Pegler

We offer the range of Cooper Pegler knapsack sprayers along with parts and accessories

- CP3 Classic 20L
- CP3 2000 Series 20L
- CP15 Classic 15L
- CP15 2000 Series 15L



Spray Nozzles, Filters & Parts

We can offer a wide range of nozzles, filters and parts to suit your sprayer.

- Syngenta XC nozzles
- Syngenta calibration kit
- Anville, flat fan and cone nozzles
- Spray shields
- Service packs
- Lances
- Spray booms
- Sprayer parts



Team Sprayers



We can supply the Team sprayer range which includes tractor mounted and pedestrian sprayers.

Fertiliser Spreaders



Accupro 2000

This spreader gives you the kind of control not available on other push-type rotary spreaders. An exclusive Helical Cone minimizes streaks, skips, spots and time consuming cross-hatching.

- Large turf saver pneumatic wheels for an easier push
- Larger diameter frame is more durable
- Patented helical cone for a uniform spread pattern
- Spread width 2-6m
- Hopper capacity 42L



SR-2000

Built with all the features of the Accupro 2000 with an improved larger stainless steel frame. This model also features an on-off side deflector provides effective product delivery control.

- Durable stainless steel frame
- Positive on-off side deflector provides effective product delivery control
- Pneumatic turf saver tyres
- Spread width 2-6m
- Hopper capacity 42L



SS-2 Drop Spreader

This drop spreader consists of a stainless steel frame, hopper and fasteners providing outstanding durability and corrosion resistance. It also has larger 13" pneumatic wheels for easier operator use.

- Stainless steel frame
- Extended ergonomic handle
- Not suitable for coated release products
- Spread width 0.91m
- Hopper capacity 46L



SSR 50

Use to accurately apply granular and powder fertilisers, and other dry treatments to sports pitches and managed amenity turf. Features a durable, moulded plastic hopper, pneumatic grass tyres, heavy duty gearboxes and positive, easy to operate controls.

- 25kg capacity
- Ideal choice for smaller areas of managed turf and lawns
- Powder coated solid steel frame
- Suitable for all types of dry fertilisers
- Can also be used to spread processed salt
- Coverage: 2.4 - 3.7 m



SSR 100 DL Deluxe

Designed for the efficient, cost effective and accurate application of granular and powder fertilisers, and other dry treatments to sports pitches and managed amenity turf. All feature durable, moulded plastic hoppers, corrosion resistant frames, pneumatic grass tyres, heavy duty gearboxes and positive, easy to operate controls.

- 45kg capacity
- High-quality stainless-steel frame
- Deflector shield to control spreading pattern
- Suitable for all types of dry fertilisers
- Can also be used for spreading salt
- Coverage: 2.4 - 3.7 m



Irrigation & Water Solutions

Tricoflex Hose

Exterior covering in ultra UV resistant PVC. With woven polyester fibre reinforcement and two-layer smooth lining. The multilayer design, made of an exclusive woven fibre and a double core layer, ensures that Tricoflex is highly flexible for easy handling, with excellent resistance to repeated bending, crushing and pulling.



- 12.5mm Diameter x (25, 50 or 100m)
- 19mm Diameter x (25, 50 or 100m)
- 25mm Diameter x (25, 50 or 100m)

Travelling Sprinkler



We have access to a wide range of travelling sprinklers to suit all requirements. These sprinklers are ideal for larger areas.

- Ideal for treating large areas
- Self propelled along cable or hose pipe
- Various sizes and types available

Rotary Sprinkler

Ideal for golf and bowling greens, these sprinklers are fitted on a sledge type base and will not mark the grass when pulled across.



- Ideal for golf and bowling greens
- Robust design
- Gives good coverage

Hose Fittings

We offer a wide selection of hose pipe fittings to help joining hose pipes together.



- Jubilee clips available in various sizes
- GEKA snap on couplings available in external, internal and hose tail fittings

Quadrop

Quadrop is a water additive technology designed to maximise the performance of managed turf. Quadrop will successfully boost water value, re-balance soil chemistry and supply key plant nutrients for:

Quality colour

Quadrop provides foliar amounts of nitrogen, magnesium and humic acids to stimulate photosynthesis for natural, vibrant greening. As well as maintaining colour, Quadrop can be used to heighten colour ahead of key events.

Regulated grass growth

Quadrop regulates growth for wear tolerance, upright grass stance and increased sward density. The actions of Quadrop in the root-zone, water and grass leaf dictate growth by avoiding nitrogen only uptake and replacing with balanced nutrient uptake.

Pre-stress conditioning

With regular application, Quadrop creates a healthier, thicker sward with improved rootmass extension that will better cope with stress conditions such as heavy play, excessive rain, hot days, water shortages and disease pressure.

Prolonged fertiliser effect

Quadrop will prolong the effect of applied fertilisers for enhanced turf response through better water quality.



Improved rootzone porosity

Quadrop formulae help maintain optimum root-zone porosity by mobilising suspended solids and top-dressing fines and allowing them to wash through the root-zone.

Water sources corrected

Whether your irrigation water comes from lake, dam, river, mains or bore hole Quadrop will help correct your water making it fit for purpose.

Pack size: 18 L / 200L / 1000L / pump-off deliveries.

Watering Cans & Measuring Jugs

A selection of watering cans are available in a selection of sizes with a range of end attachments. Measuring jugs are ideal for mixing and chemicals for spraying.



- Galvanised watering cans
- Plastic watering cans
- Measure jugs available in 1L, 2L & 5L

Irrigation Systems

We can supply parts or systems for automatic irrigation systems.

Contact us for more details.

Other Product Ranges

Golf Course Equipment



Grounds Maintenance



General Hand Tools



Safety & Workwear



Sports Equipment

Aitkens Services

SOIL ANALYSIS

We can offer basic and comprehensive soil testing to give customers essential information to make informed decisions with regards to their soil nutrition to produce high quality surfaces.

We can take the samples and send them off to an independent laboratory for testing. Once we have the results we can tailor a programme based on the findings and the requirements stated on the first visit to suit your budget. The programme will include important areas such as cultural practices, nutritional inputs we can also provide advice on wetting agents, Integrated Turf Management (ITM) programmes, weed control and pest control.

SOIL PARTICLE ANALYSIS

We are able to send samples off to a laboratory to find out the particle analysis breakdown of a sand, dressing or rootzone. This will also provide pH, organic matter content, moisture content and saturated hydraulic conductivity. This is vital information required to make informed decisions on which materials are right for you and any planned projects.

WATER TESTING

We can provide comprehensive water testing and report service for helping to improve your irrigation water to make it fit for purpose. As often mains, bore or lake water can be detrimental to maximising soil and plant performance.

Tank Mix Chart

Notes

	Nutri-Smart 12.0.12	Nutri-Smart 4.4.10	Nutri-Smart 25.0.0	Nutri-Smart 16.3.6	Nutri-Smart Armour	Aitkens Sulphate of Ammonia	Nutri-Smart Arrow	Hydroguard	Hydrosport	Hydrosolve Curative	Dew Lift	Mix Me Liquid Enhancer	Ultimax-SL Active	Ultimax-SL Tournament	Ultimax-SL Pure Concentrate	Ultimax-SL Fortify	Ultimax-SL Late & Early	Reflex Fe	Reflex Fe + K	Reflex Guard	Aitkens Sulphate of Iron	Moscore	Integral Turf	Integral Plus	Integral Max
Nutri-Smart 12.0.12																									
Nutri-Smart 4.4.10																									
Nutri-Smart 25.0.0																									
Nutri-Smart 16.3.6																									
Nutri-Smart Armour																									
Aitkens Sulphate of Ammonia																									
Nutri-Smart Arrow																									
Hydroguard																									
Hydrosport																									
Hydrosolve Curative																									
Dew Lift																									
Mix Me Liquid Enhancer																									
Ultimax-SL Active																									
Ultimax-SL Tournament																									
Ultimax-SL Pure Concentrate																									
Ultimax-SL Fortify																									
Ultimax-SL Late & Early																									
Reflex Fe																									
Reflex Fe + K																									
Reflex Guard																									
Aitkens Sulphate of Iron																									
Moscore																									
Integral Turf																									
Integral Plus																									
Integral Max																									

- Key
- Physically compatible. No compatibility issues noted.
 - Mix with caution. High iron content within tank mix / Wetting agent & liquid iron tank mix / Foliar & root absorbed tank mix
 - Physical tank mix incompatibility. Do not tank mix



Richard Aitken (Seedsman) Ltd

20 Robert Drive,
Glasgow G51 3HE
Tel: 0141 440 0033

Aitkens Sportsturf Ltd

Aviation Road, Sherburn-In-Elmet,
North Yorkshire LS25 6NB
Tel: 01977 681 155

enquiries@aitkens.co.uk

www.aitkens.co.uk

 [@Aitkens_turf](https://twitter.com/Aitkens_turf)

 [aitkens_turf](https://www.instagram.com/aitkens_turf)



P R O D U C T G U I D E

Edition 2

