



# PRODUCT GUIDE







***“Rugby is great. The players don’t wear helmets or padding; they just beat the living daylights out of each other and then go for a beer. I love that”***

**Joe Theismann** former American Football player

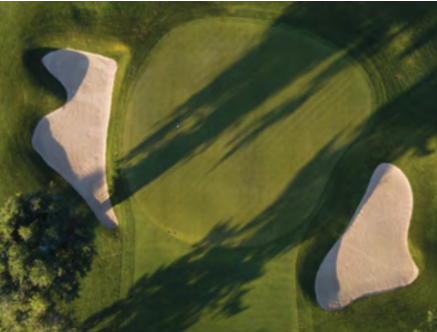



# Welcome

Sports turf managers are required to produce high quality surfaces with more consistent playability, which are aesthetically pleasing, environmentally friendly with faster recovery rates. They are expected to achieve all this using fewer chemicals, fertiliser, water and within tighter budgets.

The combined experience of TourBest equates to more than 50 years of sports turf consultancy, management, greenkeeping and maintenance. Overall we have an enormous fund of knowledge and experience ready to be applied for the benefit of our clients.

Our core values of responsibility, quality, involvement and sheer hard work makes TourBest a first choice for sports turf professionals.

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***“Champions keep playing until they get it right”***

**Billie Jean King**  
former World No.1 professional tennis player



## NPK Liquid Fertilisers

TourBest C Spray liquid fertilisers have been developed over many years, and have become a vital tool for turf managers. They are all fully tank-mix compatible with each other, and can be used in any combination to allow maximum flexibility for the application of different nutrient levels depending on their individual and unique scenarios. Many of our customers tank mix the C Spray Optimum 2-7-14 liquid and the C Spray Optimum 12-0-12 liquid which has shown to be very beneficial when over-seeding.

All TourBest liquids are manufactured to include a comprehensive bio-stimulant and nutrient package

which includes seaweed extract (see page 6), essential amino acids, humic and fulvic acids and a range of trace elements. All of these additions are free from sulphur.

The formulations developed by TourBest have been proven over a number of years, particularly where tight control of nutrients is appropriate, and across a wide range of grass species. This flexible range of liquids enables the turf manager to create a tank mix, individually tailored to his specific circumstances. **The ability to tank mix additional TourBest soluble or liquid micro nutrients is an invaluable asset for the production of world class playing surfaces.**

Product	Analysis	Approximate Rate	Longevity	Pack Coverage	Pack Size
C SPRAY OPTIMUM GREENS LIQUID NPK 2-7-14	2-7-14	20 – 100 lt/ha	2 – 4 weeks	10 – 50 ha	1,000 lts
C SPRAY OPTIMUM GREENS LIQUID NPK 12-0-12	12-0-12	20 – 100 lt/ha	2 – 4 weeks	10 – 50 ha	1,000 lts
C SPRAY OPTIMUM GREENS LIQUID NPK 0-0-10	0-0-10	20 – 100 lt/ha	2 – 4 weeks	10 – 50 ha	1,000 lts
C SPRAY OPTIMUM GREENS LIQUID NPK 18-9-9	18-9-9	20 – 100 lt/ha	2 – 4 weeks	10 – 50 ha	1,000 lts
C SPRAY OPTIMUM GREENS LIQUID NPK 20-0-10	20-0-10	20 – 100 lt/ha	2 – 4 weeks	10 – 50 ha	1,000 lts
C SPRAY OPTIMUM GREENS LIQUID NPK 28-0-0	28-0-0	20 – 100 lt/ha	2 – 4 weeks	10 – 50 ha	1,000 lts
C SPRAY OPTIMUM GREENS LIQUID NPK 5-2-10	5-2-10	20 – 100 lt/ha	2 – 4 weeks	10 – 50 ha	1,000 lts
C SPRAY OPTIMUM GREENS LIQUID EXTRA 20-0-10	20-0-10	20 – 100 lt/ha	2 – 4 weeks	10 – 50 ha	1,000 lts

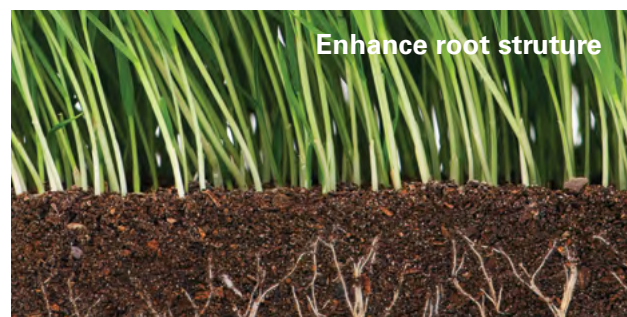


# The Benefits of Added Seaweed

Seaweed is added to help enhance root structure, along with an amino acid package from plant available Lamino acids, and a trace element inclusion to maintain levels throughout the season. The seaweed added to the TourBest C Spray Optimum Greens liquids is produced from Ascophyllum nodosum, is produced from a renewable, sustainable and environmentally friendly source.

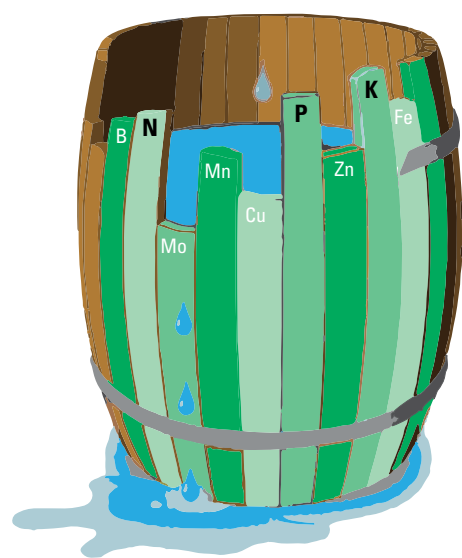
The seaweed is extracted using the latest cold cell burst technology. This technology is designed to keep all of the marine bio-stimulant molecules intact, allowing them to maintain their bioactive properties, helping to offer maximum benefits to the turf grass plant.

**Seaweed can aid root development. Independent trials showed enhanced root development when seaweed was applied. An increase in overall root mass helps to offer firmer, more stable turf as well as alleviating plant stress.**



Our trace element packaging includes boron, copper, iron, manganese, molybdenum and zinc to help turf managers maintain trace elements levels with every application of macro nutrients.

If additional trace elements are required, it's possible to further top up applications with the other secondary and micro nutrient products within the TourBest range. **These products are fully tank-mixable with the TourBest C Spray Optimum Greens liquids.**



## C Spray Optimum Greens 2-7-14

The C Spray Optimum Greens Liquid 2-7-14 is ideally suited to low Nitrogen input species. Manufactured to include a comprehensive organic additive package, the foliar uptake of nutrients by the plant minimises the environmental impact of nutrients leaching into the soil. It has the advantage of a comprehensive additive package including seaweed and trace elements.

### ✓ KEY FEATURES

- Ideal for species with low nitrogen requirements
- Nutrients are absorbed through the leaf and through the roots of the plant
- Sulphur free and has a low salt index
- Fully tank-mixable
- Contains added seaweed and trace elements

### SUGGESTED SOIL TEMPERATURES FOR APPLICATION

Minimum 5°C	Optimum 15°C	Maximum -°C
-------------	--------------	-------------

### NUTRITIENT LEVELS APPLIED (KG/HA) FROM ONE APPLICATION

20 lt/ha			100 lt/ha		
N 0.4	P <sub>2</sub> O <sub>5</sub> 1.4	K <sub>2</sub> O 2.8	N 2.0	P <sub>2</sub> O <sub>5</sub> 7.0	K <sub>2</sub> O 14.0

**PRODUCT CODE TB010103**

### CHARACTERISTICS VALUES

Approx. Longevity:	2 - 4 weeks
Cutting Height:	> 2mm
Nitrogen Source:	2.0% ammonium
Guaranteed Analysis (w/v):	2-7-14
Additional Elements:	-
Organic Matter:	-
Pack Size:	1,000 lts
Pack Coverage:	10 - 50 ha
Application Rate:	20 - 100 lt/ha
Water Rate:	300 lt/ha



## C Spray Optimum Greens 12-0-12

C Spray Optimum Greens Liquid 12-0-12 is ideally suited to grasses which require a balanced N/K input, for example Bermuda & Bentgrasses. The nutrients are taken up by the leaf minimising the environmental impact of leaching into the soil. The balance of nitrogen and potassium helps to strengthen the sward without promoting excessive growth.

### ✓ KEY FEATURES

- Perfect for Bermuda and Bentgrasses
- Nutrients are absorbed through the leaf of the plant as well as from the soil
- Sulphur free and has a low salt index
- Fully tank-mixable
- Contains added seaweed and trace elements

### SUGGESTED SOIL TEMPERATURES FOR APPLICATION

Minimum 5°C	Optimum 15°C	Maximum -°C
-------------	--------------	-------------

### NUTRITIENT LEVELS APPLIED (KG/HA) FROM ONE APPLICATION

20 lt/ha			100 lt/ha		
N 2.4	P <sub>2</sub> O <sub>5</sub> 0.0	K <sub>2</sub> O 2.4	N 12.0	P <sub>2</sub> O <sub>5</sub> 0.0	K <sub>2</sub> O 12.0

**PRODUCT CODE TB010104**

### CHARACTERISTICS VALUES

Approx. Longevity:	2 - 4 weeks
Cutting Height:	> 2mm
Nitrogen Source:	12.0% urea
Guaranteed Analysis (w/v):	12-0-12
Additional Elements:	-
Organic Matter:	-
Pack Size:	1,000 lts
Pack Coverage:	10 - 50 ha
Application Rate:	20 - 100 lt/ha
Water Rate:	300 lt/ha



## C Spray Optimum Greens 0-0-10

C Spray Optimum Greens Liquid 0-0-10 is an ideal Autumn and Winter turf hardener. It can be mixed with all other TourBest liquid fertilisers to help develop a bespoke, ideal and balanced nutritional program for all turf scenarios. Our 0-0-10 liquid also contains a comprehensive organic additive package, helping to provide a wide range of benefits to the turf.

### ✓ KEY FEATURES

- A potassium only feed based on potassium chloride
- Minimises soil nutrient loss through leaching
- Added seaweed to help alleviate stress symptoms
- Contains added seaweed and trace elements

### SUGGESTED SOIL TEMPERATURES FOR APPLICATION

Minimum 5°C	Optimum 15°C	Maximum -°C
-------------	--------------	-------------

### NUTRITIENT LEVELS APPLIED (KG/HA) FROM ONE APPLICATION

20 lt/ha			100 lt/ha		
N 0.0	P <sub>2</sub> O <sub>5</sub> 0.0	K <sub>2</sub> O 2.0	N 0.0	P <sub>2</sub> O <sub>5</sub> 0.0	K <sub>2</sub> O 10.0

**PRODUCT CODE TB010105**

### CHARACTERISTICS VALUES

Approx. Longevity:	2 - 4 weeks
Cutting Height:	> 2mm
Potassium Source:	10.0% potassium chloride
Guaranteed Analysis (w/v):	0-0-10
Additional Elements:	-
Organic Matter:	-
Pack Size:	1,000 lts
Pack Coverage:	10 - 50 ha
Application Rate:	20 - 100 lt/ha
Water Rate:	300 lt/ha



### C Spray Optimum Greens 18-9-9



C Spray Optimum Greens Liquid 18-9-9 is a perfectly balanced fertiliser with a comprehensive NPK ratio. The 18-9-9 liquid contains ammoniacal and urea nitrogen sources which provide a two stage nitrogen release. This ensures there is always nitrogen available to the plant during the main season, without promoting excessive growth.

✓ KEY FEATURES

- Contains two nitrogen sources
- Comprehensive organic additive package
- Mixes with all TourBest liquids to enable a balanced nutritional program
- Minimises soil nutrient loss through leaching
- Added seaweed and trace element package for additional turf health

CHARACTERISTICS	VALUES
Approx. Longevity:	2 - 4 weeks
Cutting Height:	> 2mm
Nitrogen Source:	2.7% ammonium, 15.3% urea
Guaranteed Analysis (w/v):	18-9-9
Additional Elements:	-
Organic Matter:	-
Pack Size:	1,000 lts
Pack Coverage:	10 - 50 ha
Application Rate:	20 - 100 lt/ha
Water Rate:	300 lt/ha

SUGGESTED SOIL TEMPERATURES FOR APPLICATION					
Minimum 5°C		Optimum 15°C		Maximum -°C	
NUTRIENT LEVELS APPLIED (KG/HA) FROM ONE APPLICATION					
20 lt/ha			100 lt/ha		
N 3.6	P <sub>2</sub> O <sub>5</sub> 1.8	K <sub>2</sub> O 1.8	N 18.0	P <sub>2</sub> O <sub>5</sub> 9.0	K <sub>2</sub> O 9.0
PRODUCT CODE TB010106					

### C Spray Optimum Greens 20-0-10



A zero phosphate product, C Spray Optimum Greens Liquid 20-0-10 contains a comprehensive organic additive package which helps to minimise soil nutrient loss through leaching. This product contains both nitrogen and potassium which are used in large quantities during the main growing season.

✓ KEY FEATURES

- A zero phosphate nitrogen and potassium analysis
- helps to maintain turf growth and promote turf hardness
- Mixes with all TourBest liquids to enable balanced nutritional program
- Contains added seaweed and trace elements

CHARACTERISTICS	VALUES
Approx. Longevity:	2 - 4 weeks
Cutting Height:	> 2mm
Nitrogen Source:	20.0% urea
Guaranteed Analysis (w/v):	20-0-10
Additional Elements:	-
Organic Matter:	-
Pack Size:	1,000 lts
Pack Coverage:	10 - 50 ha
Application Rate:	20 - 100 lt/ha
Water Rate:	300 lt/ha

SUGGESTED SOIL TEMPERATURES FOR APPLICATION					
Minimum 5°C		Optimum 15°C		Maximum -°C	
NUTRITIENT LEVELS APPLIED (KG/HA) FROM ONE APPLICATION					
20 lt/ha			100 lt/ha		
N 4.0	P <sub>2</sub> O <sub>5</sub> 0.0	K <sub>2</sub> O 2.0	N 20.0	P <sub>2</sub> O <sub>5</sub> 0.0	K <sub>2</sub> O 10.0
PRODUCT CODE TB010107					

### C Spray Optimum Greens 28-0-0



C Spray Optimum Greens Liquid 28-0-0 is a high nitrogen analysis containing mixed nitrogen sources, giving optimal nutrient release and maximum plant availability. This product can be mixed with other TourBest liquid fertilisers to enable precise control of nitrogen input levels. The three nitrogen sources provide consistent nutrient release, to prevent excessive growth.

✓ KEY FEATURES

- Balanced source of urea, ammonium and nitrate nitrogen
- Comprehensive organic additive package
- Minimises soil nutrient loss through leaching
- Contains added seaweed and trace element package

CHARACTERISTICS	VALUES
Approx. Longevity:	2 - 4 weeks
Cutting Height:	> 2mm
Nitrogen Source:	7.0% nitrate, 7.0% ammonium, 14.0% urea
Guaranteed Analysis (w/v):	28-0-0
Additional Elements:	-
Organic Matter:	-
Pack Size:	1,000 lts
Pack Coverage:	10 - 50 ha
Application Rate:	20 - 100 lt/ha
Water Rate:	300 lt/ha

SUGGESTED SOIL TEMPERATURES FOR APPLICATION					
Minimum 5°C		Optimum 15°C		Maximum -°C	
NUTRITIENT LEVELS APPLIED (KG/HA) FROM ONE APPLICATION					
20 lt/ha			100 lt/ha		
N 5.6	P <sub>2</sub> O <sub>5</sub> 0.0	K <sub>2</sub> O 0.0	N 28.0	P <sub>2</sub> O <sub>5</sub> 0.0	K <sub>2</sub> O 0.0
PRODUCT CODE TB010108					

### C Spray Optimum Greens 5-2-10



C Spray Optimum Greens Liquid 5-2-10 contains 100% available major nutrients and is tailored for specific geographic locations. Seaweed is added to the formulation to help stimulate root growth and protect the plant in times of stress. Two nitrogen sources give a prolonged release period, ensuring that there is no excessive growth.

✓ KEY FEATURES

- Contains two nitrogen sources
- Comprehensive organic additive package
- Mixes with all TourBest liquids to enable a balanced nutritional program
- Minimises soil nutrient loss through leaching
- Added seaweed and trace element package for additional turf health

CHARACTERISTICS	VALUES
Approx. Longevity:	2 - 4 weeks
Cutting Height:	> 2mm
Nitrogen Source:	1.9% nitrate, 3.1% urea
Guaranteed Analysis (w/v):	5-2-10
Additional Elements:	-
Organic Matter:	-
Pack Size:	1,000 lts
Pack Coverage:	10 - 50 ha
Application Rate:	20 - 100 lt/ha
Water Rate:	300 lt/ha

SUGGESTED SOIL TEMPERATURES FOR APPLICATION						CHARACTERISTICS	VALUES
Minimum 5°C		Optimum 15°C		Maximum -°C		Approx. Longevity:	2 - 4 weeks
						Cutting Height:	> 2mm
NUTRITIENT LEVELS APPLIED (KG/HA) FROM ONE APPLICATION						Nitrogen Source:	1.9% nitrate, 3.1% urea
20 lt/ha			100 lt/ha			Guaranteed Analysis (w/v):	5-2-10
						Additional Elements:	-
						Organic Matter:	-
N 1.0	P <sub>2</sub> O <sub>5</sub> 0.4	K <sub>2</sub> O 2.0	N 5.0	P <sub>2</sub> O <sub>5</sub> 2.0	K <sub>2</sub> O 10.0	Pack Size:	1,000 lts
						Pack Coverage:	10 - 50 ha
						Application Rate:	20 - 100 lt/ha
						Water Rate:	300 lt/ha
PRODUCT CODE TB010171							

### C Spray EXTRA 20-0-10 + Seaweed



C Spray EXTRA 20-0-10 + Seaweed contains a higher level of seaweed to provide maximum biostimulation and stress relief to the plant. It also contains a comprehensive organic additive package which helps to minimise soil nutrient loss through leaching. C Spray EXTRA 20-0-10 is ideal for use during the main growing season.

✓ KEY FEATURES

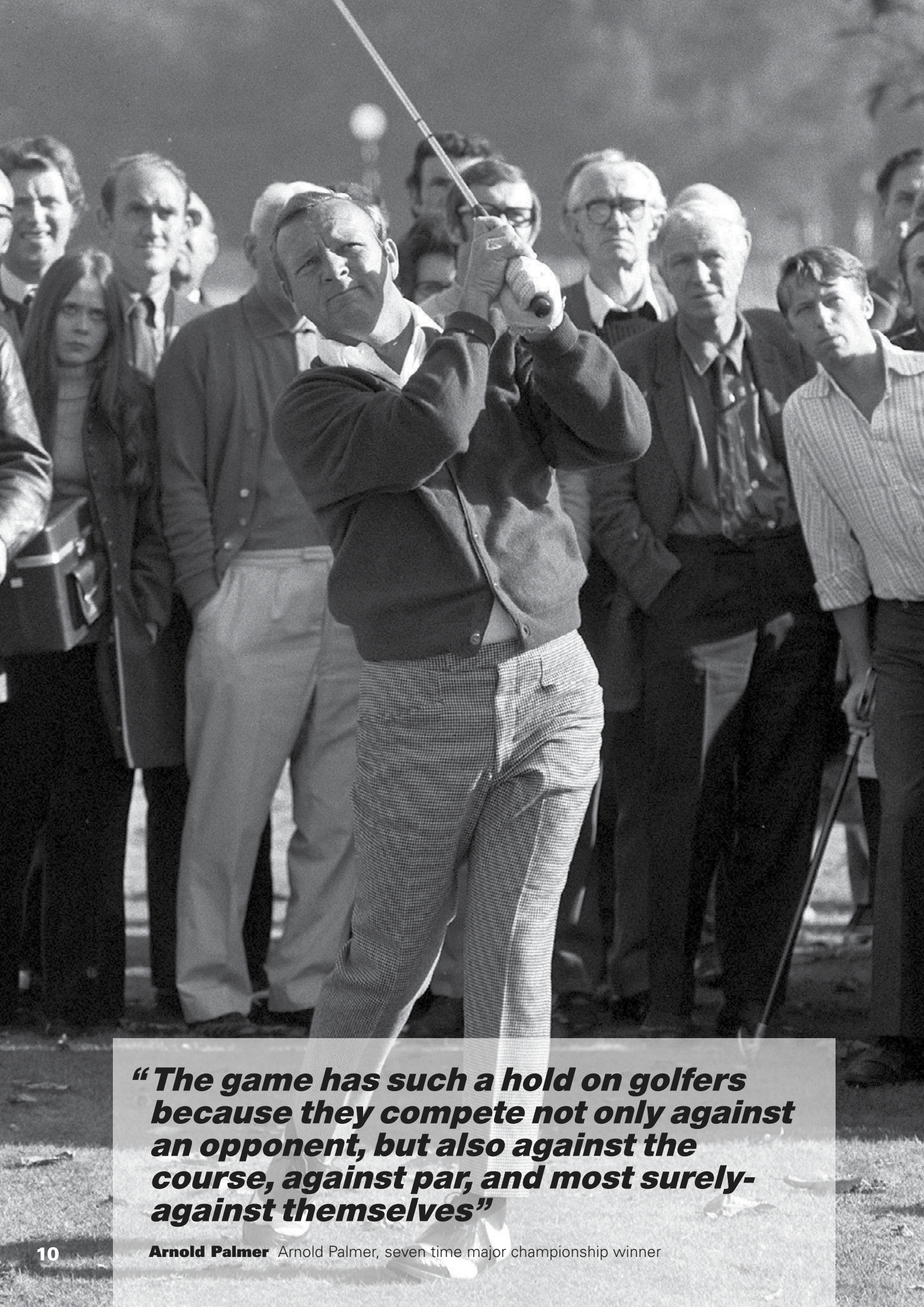
- Contains additional seaweed compared to the C Spray Optimum Greens Liquids
- Offers additional turf stress relief
- A zero phosphate nitrogen and potassium analysis
- Mixes with all TourBest liquids to enable balanced nutritional program

CHARACTERISTICS	VALUES
Approx. Longevity:	2 - 4 weeks
Cutting Height:	> 2mm
Nitrogen Source:	20.0% urea
Guaranteed Analysis (w/v):	20-0-10
Additional Elements:	-
Organic Matter:	-
Pack Size:	1,000 lts
Pack Coverage:	10 - 50 ha
Application Rate:	20 - 100 lt/ha
Water Rate:	300 lt/ha

SUGGESTED SOIL TEMPERATURES FOR APPLICATION						CHARACTERISTICS		VALUES
Minimum 5°C		Optimum 15°C		Maximum -°C		Approx. Longevity:		2 - 4 weeks
NUTRITIENT LEVELS APPLIED (KG/HA) FROM ONE APPLICATION						Cutting Height:		> 2mm
						Nitrogen Source:		20.0% urea
						Guaranteed Analysis (w/v):		20-0-10
						Additional Elements:		-
20 lt/ha			100 lt/ha			Organic Matter:		-
N 4.0	P <sub>2</sub> O <sub>5</sub> 0.0	K <sub>2</sub> O 2.0	N 20.0	P <sub>2</sub> O <sub>5</sub> 0.0	K <sub>2</sub> O 10.0	Pack Size:		1,000 lts
PRODUCT CODE TB010160						Pack Coverage:		10 - 50 ha
						Application Rate:		20 - 100 lt/ha
						Water Rate:		300 lt/ha







***“The game has such a hold on golfers because they compete not only against an opponent, but also against the course, against par, and most surely- against themselves”***

**Arnold Palmer** Arnold Palmer, seven time major championship winner



## Foliar Liquids

**Not every liquid feed is a true foliar feed.** Foliar feeds are applied directly to the plant leaves where they are absorbed through the epidermis and transcuticular pores, as opposed to conventional liquid feeds which are taken up by the roots. This method of leaf absorption takes place, even in high stress conditions. This not only maximises nutrient uptake but reduces leaching of nutrients into the environment. TourBest foliar feeds have been developed to penetrate the epidermis and

transcuticular pores on the foliage, which are open virtually all the time in comparison with the stomata.

The range of foliar feeds has been developed to include proprietary complexing agents, surfactants and other formulation aids to provide enhanced uptake and utilisation whilst reducing leaching and volatilisation. **The range uses a blend of organic acids, carbohydrates, and other natural organic formulants to achieve optimum leaf uptake and nutrient translocation.**

Product	Analysis	Approximate Rate	Longevity	Pack Coverage	Pack Size
FOLIAR GREENS LIQUID N	19-3-3	10 – 20 lt/ha	2 – 3 weeks	5,000 – 10,000 m <sup>2</sup>	10 lts
FOLIAR GREENS LIQUID P	4-43-19	10 – 20 lt/ha	2 – 3 weeks	5,000 – 10,000 m <sup>2</sup>	10 lts
FOLIAR GREENS LIQUID K	0-0-10	10 – 20 lt/ha	2 – 3 weeks	5,000 – 10,000 m <sup>2</sup>	10 lts
FOLIAR GREENS LIQUID FE	6.5% Fe	10 – 20 lt/ha	2 – 3 weeks	5,000 – 10,000 m <sup>2</sup>	10 lts
SOLAR N	19-3-3	10 – 20 lt/ha	2 – 3 weeks	5,000 – 10,000 m <sup>2</sup>	10 lts
SOLAR K	0-0-9	10 – 20 lt/ha	2 – 3 weeks	5,000 – 10,000 m <sup>2</sup>	10 lts
SOLAR PK	4-43-19	10 – 20 lt/ha	2 – 3 weeks	5,000 – 10,000 m <sup>2</sup>	10 lts
SOLAR C	11-7-7	10 – 20 lt/ha	2 – 3 weeks	5,000 – 10,000 m <sup>2</sup>	10 lts
SOLAR FE	3-0-5 + 3.0% Fe	10 – 20 lt/ha	2 – 3 weeks	5,000 – 10,000 m <sup>2</sup>	10 lts
SOLAR CA+MG	3-0-0 + 4.3% MgO + 8.8% CaO	10 – 20 lt/ha	2 – 3 weeks	5,000 – 10,000 m <sup>2</sup>	10 lts
SOLAR PRO-ACTIVE	4-43-19	2.5 lt/ha	3 – 4 weeks	10,000 m <sup>2</sup>	2.5 lts
SOLAR NANO SI	10.5% SiO <sub>2</sub>	5 – 10 lt/ha	2 – 3 weeks	10,000 – 20,000 m <sup>2</sup>	10 lts

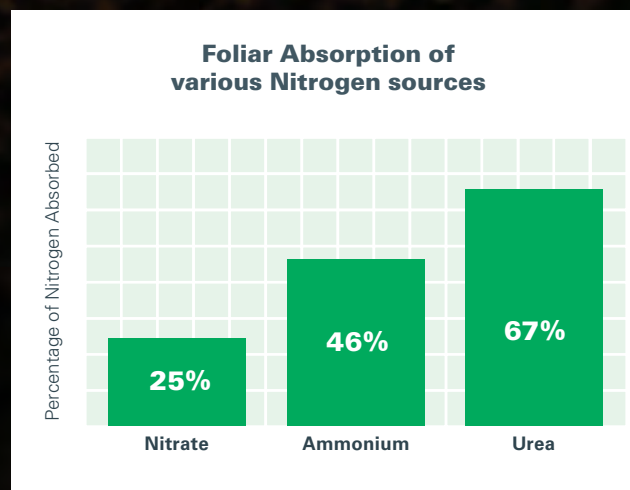


## Foliar Absorption of Nitrogen Sources

There are many different sources of Nitrogen used in the manufacture of Foliar Fertilisers. Each different Nitrogen source is taken up by the plant slightly differently, allowing some Nitrogen sources to be more effective when applied by a foliar method. Latest research on this topic shows that nitrate is absorbed least, followed by ammonium and urea being the most efficient.

Foliar fertilisers enter the leaf through microscopic pores which are negatively charged. Nitrate ( $\text{NO}_3^-$ ) is also negatively charged and is therefore repelled by the leaf, explaining why there is significantly lower uptake compared to the positively charged ammonium ( $\text{NH}_4^+$ ) and zero charged Urea nitrogen. As an added benefit, Urea

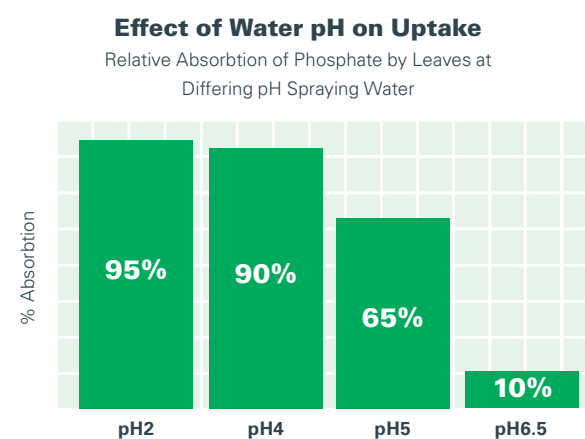
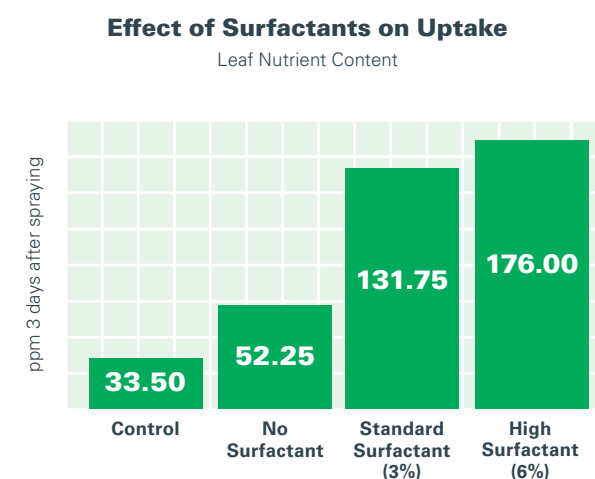
has the lowest salt index and shows limited or no phytotoxicity after application.



## Nutrient Uptake Efficiency

The efficacy of uptake of many nutrient elements is enhanced by a slightly acidic solution and, where possible, TourBest formulations are buffered to take account of this. The spreading

action of the surfactants allows uptake through the cuticle of the leaf and does not limit penetration to the stomata.



## Foliar Absorption of Nitrogen

Foliar feeding ensures that nutrients are taken up by the leaf, and not by the plant's root system. Research shows that different nitrogen sources are taken up at different rates, and our formulations have been developed to take account of this.

Nutrients translocate throughout the plant.

During the summer, roots are under stress and therefore limited in their ability to take up nutrients.

**Turfgrass leaf blade**

**Stomatal openings:**

Historically the entryway into foliage for liquid fertilisers. Large openings, but more often closed than open.

**TourBest Foliar Fertilisers**

**Transcuticular pore spaces:**

These numerous but smaller pores are always open.

Solar Foliar Fertilisers are formulated so the molecules are small enough to pass through these pore spaces and penetrate the leaf.





Foliar Greens Liquid N

Foliar N is a true foliar feed containing two nitrogen sources, ammonium and urea. The combination of these allows for initial growth followed by balanced and controlled plant growth. It is an ideal early season starter fertiliser, used to great effect in both warm and cool climates, but can also be used later in the season when additional growth is required.

KEY FEATURES

- A high nitrogen formulation with added phosphate, potassium and iron
- Absorbed by the leaf and not by the roots to maximise nutrient uptake
- Offers excellent recovery characteristics in turf during periods of increased use
- A fast acting and stable tank mixable formulation

SUGGESTED SOIL TEMPERATURES FOR APPLICATION					
Minimum 8°C		Optimum 18°C		Maximum -0°C	

NUTRITIENT LEVELS APPLIED (KG/HA) FROM ONE APPLICATION					
10 lt/ha			20 lt/ha		
N 1.9	P <sub>2</sub> O <sub>5</sub> 0.3	K <sub>2</sub> O 0.3	N 3.8	P <sub>2</sub> O <sub>5</sub> 0.6	K <sub>2</sub> O 0.6

PRODUCT CODE TB010301

CHARACTERISTICS	VALUES
Approx. Longevity:	2 - 3 weeks
Cutting Height:	> 2mm
Nitrogen Source:	0.9% ammonium, 18.4% urea
Guaranteed Analysis (w/v):	19-3-3
Additional Elements:	1.0% Fe
Organic Matter:	-
Pack Size:	10 lts
Pack Coverage:	5,000 - 10,000 m <sup>2</sup>
Application Rate:	10 - 20 lt/ha
Water Rate:	300 - 600 lt/ha



Foliar Greens Liquid P

Foliar P (Root Developer) is a true foliar feed, high in phosphite, designed to help dramatically reduce plant stress during the summer months. Foliar P is fully systemic, and is available in a fast acting, stable tank mixable formulation.

KEY FEATURES

- Spring/summer applications boost plant growth, particularly in low temperatures
- Late summer and autumn applications promote turf hardness
- Boosts plant health
- Improves disease resistance

SUGGESTED SOIL TEMPERATURES FOR APPLICATION					
Minimum 5°C		Optimum 15°C		Maximum -0°C	

NUTRITIENT LEVELS APPLIED (KG/HA) FROM ONE APPLICATION					
20 lt/ha			100 lt/ha		
N 0.4	P <sub>2</sub> O <sub>5</sub> 4.3	K <sub>2</sub> O 1.9	N 0.8	P <sub>2</sub> O <sub>5</sub> 8.6	K <sub>2</sub> O 3.8

PRODUCT CODE TB010305

CHARACTERISTICS	VALUES
Approx. Longevity:	2 - 3 weeks
Cutting Height:	> 2mm
Nitrogen Source:	4.2% ammonium
Guaranteed Analysis (w/v):	4-43-19
Additional Elements:	-
Organic Matter:	-
Pack Size:	10 lts
Pack Coverage:	5,000 - 10,000 m <sup>2</sup>
Application Rate:	10 - 20 lt/ha
Water Rate:	300 - 600 lt/ha



Foliar Greens Liquid K

Foliar K is a potassium based feed. The main application of Foliar K is to address low levels of potassium, most regularly found in sand based root zones. The potassium found in Foliar K is immediately available, aiding cell wall strength and helping the plant fight disease.

KEY FEATURES

- Macro and micro-nutrient formulation
- Fast acting formulation
- A true foliar feed, absorbed through the plant leaf
- Ideal plant stress reliever

SUGGESTED SOIL TEMPERATURES FOR APPLICATION					
Minimum 5°C		Optimum 18°C		Maximum -0°C	

NUTRITIENT LEVELS APPLIED (KG/HA) FROM ONE APPLICATION					
10 lt/ha			20 lt/ha		
N 0.0	P <sub>2</sub> O <sub>5</sub> 0.0	K <sub>2</sub> O 0.9	N 0.0	P <sub>2</sub> O <sub>5</sub> 0.0	K <sub>2</sub> O 1.8

PRODUCT CODE TB010304

CHARACTERISTICS	VALUES
Approx. Longevity:	2 - 3weeks
Cutting Height:	> 2mm
Potassium Source:	9.0% from potassium chloride
Guaranteed Analysis (w/v):	0-0-10
Additional Elements:	-
Organic Matter:	-
Pack Size:	10 lts
Pack Coverage:	5,000 - 10,000 m <sup>2</sup>
Application Rate:	10 - 20 lt/ha
Water Rate:	300 - 600 lt/ha



Foliar Greens Liquid Fe

A concentrated liquid iron formulation containing 6.5% Fe for application throughout the year. Iron is an essential constituent of the chlorophyll molecule. Regular applications will stimulate chlorophyll production. Fully compatible in a tank mix with other products.

KEY FEATURES

- For use on fine turf areas including golf and bowling greens
- Provides 6 weeks of green up without blackening
- Does not encourage excessive growth
- Toughens sward providing disease and stress resistance

SUGGESTED SOIL TEMPERATURES FOR APPLICATION					
Minimum 10°C		Optimum 15°C		Maximum -0°C	

NUTRITIENT LEVELS APPLIED (KG/HA) FROM ONE APPLICATION					
10 lt/ha			20 lt/ha		
N 0.0	P <sub>2</sub> O <sub>5</sub> 0.0	K <sub>2</sub> O 0.0	N 0.0	P <sub>2</sub> O <sub>5</sub> 0.0	K <sub>2</sub> O 0.0

PRODUCT CODE TB010307

CHARACTERISTICS	VALUES
Approx. Longevity:	2 - 3 weeks
Cutting Height:	> 2mm
Nitrogen Source:	-
Guaranteed Analysis (w/v):	6.5% Fe
Additional Elements:	-
Organic Matter:	-
Pack Size:	10 lts
Pack Coverage:	5,000 - 10,000 m <sup>2</sup>
Application Rate:	10 - 20 lt/ha
Water Rate:	300 - 600 lt/ha







### Solar N

Solar N is a true foliar feed containing two nitrogen sources, ammonium and urea. The combination of these allows for initial growth followed by balanced and controlled plant growth. It is an ideal early season starter fertiliser, used to great effect in both warm and cool climates, but can also be used later in the season when additional growth is required.

✓ KEY FEATURES

- A high nitrogen formulation with added phosphate, potassium and iron
- Absorbed by the leaf and not by the roots to maximise nutrient uptake
- Offers excellent recovery characteristics in turf during periods of increased use
- A fast acting and stable tank mixable formulation

CHARACTERISTICS		VALUES
Approx. Longevity:	Cutting Height:	2 - 3 weeks > 2mm
Nitrogen Source:	Guaranteed Analysis (w/v):	0.9% ammonium, 18.4% urea 19-3-3
Additional Elements:	Organic Matter:	-
Pack Size:	Pack Coverage:	10 lts 5,000 - 10,000 m <sup>2</sup>
Application Rate:	Water Rate:	10 - 20 lt/ha 300 - 600 lt/ha

SUGGESTED SOIL TEMPERATURES FOR APPLICATION					
Minimum 8°C		Optimum 18°C		Maximum -°C	
NUTRITIENT LEVELS APPLIED (KG/HA) FROM ONE APPLICATION					
10 lt/ha			20 lt/ha		
N 1.9	P <sub>2</sub> O <sub>5</sub> 0.3	K <sub>2</sub> O 0.3	N 3.8	P <sub>2</sub> O <sub>5</sub> 0.6	K <sub>2</sub> O 0.6
PRODUCT CODE IG040102					



### Solar PK

Solar PK is of major benefit in speeding up seedling plant establishment. It is a high phosphate foliar fertiliser which can help boost plant growth, particularly in lower temperatures. Solar PK is primarily used to help increase root length and root mass, and regular applications can help increase overall plant health and disease resistance.

✓ KEY FEATURES

- When used after seeding and/or overseeding, it increases rooting and promotes early establishment
- Promotes turf hardness and helps to boost plant health and disease resistance
- Increases the capacity of the plant to scavenge the soil for water, oxygen and nutrients

CHARACTERISTICS		VALUES
Approx. Longevity:	Cutting Height:	2 - 3 weeks > 2mm
Nitrogen Source:	Guaranteed Analysis (w/v):	4.0% ammonium 4-43-19
Additional Elements:	Organic Matter:	-
Pack Size:	Pack Coverage:	10 lts 5,000 - 10,000 m <sup>2</sup>
Application Rate:	Water Rate:	10 - 20 lt/ha 300 - 600 lt/ha

SUGGESTED SOIL TEMPERATURES FOR APPLICATION					
Minimum 8°C		Optimum 18°C		Maximum -0°C	
NUTRITIENT LEVELS APPLIED (KG/HA) FROM ONE APPLICATION					
10 lt/ha			20 lt/ha		
N 0.4	P <sub>2</sub> O <sub>5</sub> 4.3	K <sub>2</sub> O 1.9	N 0.8	P <sub>2</sub> O <sub>5</sub> 8.6	K <sub>2</sub> O 3.8
PRODUCT CODE IG040104					



### Solar K

Solar K is a potassium only feed, primarily used to address potassium deficiency when cooler temperatures are prevalent. It is formulated with a potassium source which is immediately available to the plant, and can be easily assimilated by the plant leaf. Solar K helps with the formation of natural starches and sugars in the plant, also assisting with plant hardiness in colder conditions.

✓ KEY FEATURES

- Provides easily available potassium which is quickly absorbed by the leaf
- An ideal plant stress reliver & turf hardener
- Particularly effective on sand-based rootzones when nutrient leaching is an issue
- Aids in improving cell wall strength and increasing disease resistance

CHARACTERISTICS		VALUES
Approx. Longevity:	Cutting Height:	2 - 3 weeks > 2mm
Potassium Source:	Guaranteed Analysis (w/v):	9.0% from potassium chloride 0-0-9
Additional Elements:	Organic Matter:	-
Pack Size:	Pack Coverage:	10 lts 5,000 - 10,000 m <sup>2</sup>
Application Rate:	Water Rate:	10 - 20 lt/ha 300 - 600 lt/ha

SUGGESTED SOIL TEMPERATURES FOR APPLICATION					
Minimum 5°C		Optimum 18°C		Maximum -0°C	
NUTRITIENT LEVELS APPLIED (KG/HA) FROM ONE APPLICATION					
10 lt/ha			20 lt/ha		
N 0.0	P <sub>2</sub> O <sub>5</sub> 0.0	K <sub>2</sub> O 0.9	N 0.0	P <sub>2</sub> O <sub>5</sub> 0.0	K <sub>2</sub> O 1.8
PRODUCT CODE IG040103					



### Solar C

Solar C is a foliar feed containing carbohydrates to provide a boost to the nitrogen, phosphate and potassium uptake by the turf. Solar C is a complete NPK formula for use as a primary feed throughout the main duration of the season. Solar C also contains additional natural sugars which make it an ideal product for use under high stress levels, aiding plant recovery.

✓ KEY FEATURES

- Nutrients rapidly absorbed through the leaf
- Helps replenish nutrients lost in grass clippings during the main growing season
- Offers excellent recovery characteristics in turf during periods of increased use
- Used to great effect in both warm and cool climates balanced nutritional program

CHARACTERISTICS		VALUES
Approx. Longevity:	Cutting Height:	2 - 3 weeks > 2mm
Nitrogen Source:	Guaranteed Analysis (w/v):	2.4% ammonium, 8.2% urea 11-7-7
Additional Elements:	Organic Matter:	0.2% Fe -
Pack Size:	Pack Coverage:	10 lts 5,000 - 10,000 m <sup>2</sup>
Application Rate:	Water Rate:	10 - 20 lt/ha 300 - 600 lt/ha

SUGGESTED SOIL TEMPERATURES FOR APPLICATION					
Minimum 8°C		Optimum 18°C		Maximum -0°C	
NUTRITIENT LEVELS APPLIED (KG/HA) FROM ONE APPLICATION					
10 lt/ha			20 lt/ha		
N 1.1	P <sub>2</sub> O <sub>5</sub> 0.7	K <sub>2</sub> O 0.7	N 2.2	P <sub>2</sub> O <sub>5</sub> 1.4	K <sub>2</sub> O 1.4
PRODUCT CODE IG040105					



### Solar Fe

Solar Fe is a complexed/chelated foliar feed with added potassium which is absorbed through the plant leaf. Regular applications of Solar Fe will help stimulate chlorophyll production, giving the turf a great natural dark green colour. It has been designed to provide a rapid and efficient uptake of nutrients. The added potassium helps Solar Fe to toughen the sward, giving an increase in disease and stress resistance.

✓ KEY FEATURES

- Iron content provides fast green up without stimulating unwanted growth
- Nutrients rapidly absorbed through the leaf
- Potassium levels provide added cell wall strength and disease resistance
- Ensures turf hardness during colder climactic conditions

CHARACTERISTICS		VALUES
Approx. Longevity:	Cutting Height:	2 - 3 weeks > 2mm
Nitrogen Source:	Guaranteed Analysis (w/v):	3.0% ammonium 3-0-5 + Fe
Additional Elements:	Organic Matter:	3.0% Fe -
Pack Size:	Pack Coverage:	10 lts 5,000 - 10,000 m <sup>2</sup>
Application Rate:	Water Rate:	10 - 20 lt/ha 300 - 600 lt/ha

SUGGESTED SOIL TEMPERATURES FOR APPLICATION					
Minimum 8°C		Optimum 18°C		Maximum -0°C	
NUTRITIENT LEVELS APPLIED (KG/HA) FROM ONE APPLICATION					
10 lt/ha			20 lt/ha		
N 0.3	P <sub>2</sub> O <sub>5</sub> 0.0	K <sub>2</sub> O 0.5	N 0.6	P <sub>2</sub> O <sub>5</sub> 0.0	K <sub>2</sub> O 1.0
PRODUCT CODE IG040101					



### Solar Ca+Mg

Solar Ca+Mg is a foliar feed, absorbed directly by the plant leaf, to help counteract the effects of calcium and magnesium deficiencies. It can be applied regularly with low application rates, to help provide added colour to the turf, during the cooler seasons. Solar Ca+Mg helps strengthens the plant cell walls and provides added green up from the magnesium content.

✓ KEY FEATURES

- Improves cell wall strength and helps the plant build up a resistance to disease and stress
- Increases resistance to many plant pathogens
- Helps increase sugar synthesis and starch translocation

CHARACTERISTICS		VALUES
Approx. Longevity:	Cutting Height:	2 - 3 weeks > 2mm
Nitrogen Source:	Guaranteed Analysis (w/v):	3.0% nitrate 3-0-0
Additional Elements:	Organic Matter:	4.3% MgO, 8.8% CaO -
Pack Size:	Pack Coverage:	10 lts 5,000 - 10,000 m <sup>2</sup>
Application Rate:	Water Rate:	10 - 20 lt/ha 300 - 600 lt/ha

SUGGESTED SOIL TEMPERATURES FOR APPLICATION					
Minimum 8°C		Optimum 18°C		Maximum -0°C	
NUTRITIENT LEVELS APPLIED (KG/HA) FROM ONE APPLICATION					
10 lt/ha			20 lt/ha		
N 0.3	P <sub>2</sub> O <sub>5</sub> 0.0	K <sub>2</sub> O 0.0	N 0.6	P <sub>2</sub> O <sub>5</sub> 0.0	K <sub>2</sub> O 0.0
PRODUCT CODE IG040106					





Solar Pro-Active

Solar Pro-Active is a foliar bio-stimulant, high in phosphite, designed to help dramatically reduce plant stress during the summer months. It is rapidly absorbed by the leaf and translocated to all parts of the plant, stimulating natural plant auxin production. It is fully systemic, and is available in our fast acting, stable, tank mixable formulation.

KEY FEATURES

- Significantly aids early root growth and establishment
- Promotes the plants natural resistance to disease and boost overall plant health
- Increases plants natural defence mechanism towards some pathogens
- Applications boost plant growth, particularly in low temperatures

SUGGESTED SOIL TEMPERATURES FOR APPLICATION

Minimum 5°C	Optimum 18°C	Maximum -0°C
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NUTRITIENT LEVELS APPLIED (KG/HA) FROM ONE APPLICATION

2.5 lt/ha		
N 0.1	P <sub>2</sub> O <sub>5</sub> 1.1	K <sub>2</sub> O 0.5

PRODUCT CODE IG040109



Solar Nano Si

Solar Nano Si is a silicate product which utilises nano technology. Silicon is used in plants to help strengthen cell wall tissues, which aids in the prevention of leaf spot. An application of Solar Nano Si lifts seed heads allowing for better collection with regular mowing, particularly with uneven spring growth. Solar Nano Si assists in the removal of annual meadow-grass.

KEY FEATURES

- When used after seeding and/or overseeding, it increases rooting and promotes early establishment
- Promotes turf hardness and helps to boost plant health and disease resistance
- Increases the capacity of the plant to scavenge the soil for water, oxygen and nutrients

SUGGESTED SOIL TEMPERATURES FOR APPLICATION

Minimum 8°C	Optimum 18°C	Maximum -0°C
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NUTRITIENT LEVELS APPLIED (KG/HA) FROM ONE APPLICATION

5 lt/ha			10 lt/ha		
N 0.0	P <sub>2</sub> O <sub>5</sub> 0.0	K <sub>2</sub> O 0.0	N 0.0	P <sub>2</sub> O <sub>5</sub> 0.0	K <sub>2</sub> O 0.0

PRODUCT CODE IG040107

CHARACTERISTICS VALUES

Approx. Longevity:	2 - 3 weeks
Cutting Height:	> 2mm
Nitrogen Source:	-
Guaranteed Analysis (w/v):	0-0-0
Additional Elements:	10.5% SiO <sub>2</sub>
Organic Matter:	-
Pack Size:	10 lts
Pack Coverage:	10,000 - 20,000 m <sup>2</sup>
Application Rate:	5 - 10 lt/ha
Water Rate:	300 - 600 lt/ha



Sportsfield Fertiliser

The TourBest outfield granular fertilisers are predominantly slow release in their nature, utilising either methylene urea or Polymer Sulphur Coated Urea (PSCU) technologies.

longevity of 8 to 24 weeks, depending on the percentage of coated material and thickness of the PSCU coating.

The slow release outfield granular fertilisers all have an SGN of between 120 and 250, making at least one of the products in the range ideal to be used on all turf types.

The Impact CGF products are produced using PSCU and have a release mechanism based on moisture giving a

Product	Analysis	Approximate Rate	Longevity	Pack Coverage	Pack Size
HUMIK N25	25-0-0	20 – 40 g/m <sup>2</sup>	6 – 10 weeks	500 – 1,000 m <sup>2</sup>	20 kgs
QUANTUM SPORT 14-5-18	14-5-18	20 – 40 g/m <sup>2</sup>	6 – 10 weeks	500 – 1,000 m <sup>2</sup>	20 kgs
IMPACT CGF 15-5-15	15-5-15	20 – 40 g/m <sup>2</sup>	8 – 10 weeks	500 – 1,000 m <sup>2</sup>	20 kgs
IMPACT CGF 25-5-10	25-5-10 + 2.0% MgO	20 – 40 g/m <sup>2</sup>	8 – 12 weeks	500 – 1,000 m <sup>2</sup>	20 kgs
IMPACT CGF 16-5-26	16-5-26 + 2.0% MgO	20 – 40 g/m <sup>2</sup>	8 – 12 weeks	500 – 1,000 m <sup>2</sup>	20 kgs
IMPACT CGF 26-5-8	26-5-8 + 2.0% MgO	20 – 40 g/m <sup>2</sup>	12 – 14 weeks	500 – 1,000 m <sup>2</sup>	20 kgs
IMPACT CGF 28-8-8	28-8-8	20 – 40 g/m <sup>2</sup>	18 – 24 weeks	500 – 1,000 m <sup>2</sup>	20 kgs





## Humik N25 – The benefits of Humic Acid



Humic acid can help to increase the cation exchange capacity (C.E.C.) of the soil. A high C.E.C. helps the soil to cling on to the nutrients, keeping them available to the turf. This is particularly important in climates where regular watering is required.

Humik N25 is based on humic acid and is produced in a fully homogenous granule ensuring the accurate spread of nutrients. It contains high levels of organic matter which helps to improve all round soil health, with a particularly strong effect when applied to turf with a sand-based rootzone.

The application of humic acid helps to release nutrients bound within the rhizosphere to make them available and more accessible for uptake. The high organic matter content provides fuel for microbes and general soil biota along with three nitrogen sources to provide balanced steady release for strong healthy growth.

## Quantum Sport – The benefits of low sulphur fertilisers



Quantum Sport has been formulated to reduce the slow acidification of soils that can happen with sulphate-based fertilisers. By careful selection of raw materials and inclusion of calcium and magnesium, grass plants such as perennial ryegrasses that prefer a more neutral pH will thrive.

If a rootzone, particularly a sand-based pitch construction, is continually fed with traditional acidifying fertilisers the soil pH can rapidly drop to as low as five. This drop in pH is particularly prevalent in football pitches that are not fully surface renovated every year, as is common practice at some football clubs. At these low pH levels, nitrogen uptake is much more inefficient, so more fertiliser is required, which is wasteful and potentially detrimental to the environment.

## PSCU (Polymer Sulphur Coated Urea)

TourBest Sportsfield Fertilisers also make use of the latest polymer sulphur coated urea (PSCU) technology. These PSCU fertilisers are a hybrid of both sulphur and polymer nitrogen coating options. The sulphur is applied initially as a thinner layer which reduces the chances of “lock off” which occurs when the coated granule fails to release its nutrients more prevalent when the sulphur coating is too thick.

The granule is then coated with a polymer. This reduces the potential of catastrophic “burst” (premature release of nutrient) prevalent in sulphur coated urea products due to imperfections in the coating.

The longevity is regulated by moisture which is highly correlated with nutrient availability and uptake this ensures that when water availability initiates gradual breakdown of the polymer coat the osmosis increase the internal pressure on inner pool of nutrient slowly releasing the nitrogen to the rhizosphere.

Nitrogen losses occur in many ways. Controlled release fertilisers can reduce volatilisation by ensuring the urea fertiliser is intact not broken down by urease enzymes. These can cause volatilisation of ammonia gas via ammonium carbamates conversion to ammonia and carbon dioxide if there is inadequate moisture. The coating breakdown releases the urea once sufficient moisture is available for the conversion of ammonia gas to ammonium ions which then due to their positive charge are attracted to the soil cation exchange complex.

The products in the TourBest Sportsfield Fertiliser range have varying percentage of controlled release nitrogen, ranging from 20% to 93%. These different percentage thicknesses of PSCU coating allow for a range of nitrogen release periods from 8 to 24 weeks.

*The PSCU coatings can be built up in layers the overall thickness dictates the longevity and diffusion rate which is dependent on moisture as the layers of polymer increase this extends the release time.*



### Humik N25 25-0-0



Humik N25 is a new technology slow release outfield fertiliser. Humik N25 is a complex of humates and nitrogen which can only be broken down through microbial activity. Using Humik N25 will provide all the benefits of slow release nitrogen, including; sustained growth, fewer growth flushes and less nitrate leaching. It will also provide the added benefits of humates through soil building and an increase in C.E.C.

- ✓ KEY FEATURES
- High nitrogen content for excellent growth with no phosphorous or potassium input
  - Positively affects soil chemistry and microbial activity
  - Helps hold nutrients and moisture in the rootzone for longer
  - Particularly effective in sand-based rootzones where microbial activity is lower

SUGGESTED SOIL TEMPERATURES FOR APPLICATION					
Minimum 10°C		Optimum 18°C		Maximum 30°C	
NUTRITIENT LEVELS APPLIED (KG/HA) FROM ONE APPLICATION					
20 g/m²			40 g/m²		
N 50.0	P <sub>2</sub> O <sub>5</sub> 0.0	K <sub>2</sub> O 0.0	N 100.0	P <sub>2</sub> O <sub>5</sub> 0.0	K <sub>2</sub> O 0.0
PRODUCT CODE IG030610					

CHARACTERISTICS	VALUES
Approx. Longevity:	6 - 10 weeks
SGN/Particle Size	150 - 250
Cutting Height:	> 10mm
Nitrogen Source:	1.5% organic, 11.3% ammonium, 12.4% urea
Guaranteed Analysis:	25-0-0
Additional Elements:	-
Organic Matter:	46.6%
Pack Size:	20 kgs
Pack Coverage:	500 - 1,000 m²
Application Rate:	20 - 40 g/m²

### Quantum Sport 14-5-18



Quantum Sport 14-5-18 is a well-balanced NPK fertiliser for use in challenging sports pitch scenarios. The four different nitrogen sources offer an initial growth boost, whilst maintaining consistent feeding levels after application, with extended longevity provided by the methylene urea content. The added trace elements, including magnesium and calcium, help to boost turf colour, reduce turf stress and improve disease resistance.

- ✓ KEY FEATURES
- Contains four nitrogen sources, including methylene urea, to provide stable and consistent growth
  - Quick green up from added magnesium, great for stadium pitches
  - Low sulphur product with calcium to reduce salt levels in the soil profile
  - Excellent nutrient availability in cooler temperatures

SUGGESTED SOIL TEMPERATURES FOR APPLICATION					
Minimum 6°C		Optimum 16°C		Maximum 30°C	
NUTRITIENT LEVELS APPLIED (KG/HA) FROM ONE APPLICATION					
20 g/m²			40 g/m²		
N 28.0	P <sub>2</sub> O <sub>5</sub> 10.0	K <sub>2</sub> O 36.0	N 56.0	P <sub>2</sub> O <sub>5</sub> 20.0	K <sub>2</sub> O 72.0
PRODUCT CODE IG031111					

CHARACTERISTICS	VALUES
Approx. Longevity:	6 - 10 weeks
SGN/Particle Size	150 - 250
Cutting Height:	> 10mm
Nitrogen Source:	1.3% organic, 3.0% ammonium, 7.5% urea, 2.2% methylene urea
Guaranteed Analysis:	14-5-18
Additional Elements:	3.0% MgO, 3.0% CaO
Organic Matter:	14.2%
Pack Size:	20 kgs
Pack Coverage:	500 - 1,000 m²
Application Rate:	20 - 40 g/m²

### Impact CGF 15-5-15 (20% PSCU)



Impact CGF 15-5-15 is suitable for fairways and outfields and is an ideal spring/summer product. The high levels of uncoated nitrogen provide the turf with good green up and an initial growth response. Impact CGF 15-5-15 is a very economic approach to feeding large areas and the added PSCU provides increased longevity.

SUGGESTED SOIL TEMPERATURES FOR APPLICATION					
Minimum 10°C		Optimum 16°C		Maximum 30°C	
NUTRITIENT LEVELS APPLIED (KG/HA) FROM ONE APPLICATION					
20 g/m²			40 g/m²		
N 30.0	P <sub>2</sub> O <sub>5</sub> 10.0	K <sub>2</sub> O 30.0	N 60.0	P <sub>2</sub> O <sub>5</sub> 20.0	K <sub>2</sub> O 60.0
PRODUCT CODE IG030808					

- ✓ KEY FEATURES
- 20% PSCU coating for increased longevity; 2+ months nitrogen release
  - Consistently sized granules for accurate and consistent application
  - Small granule size ensures the product disappears in the sward
  - Contains 12.6% calcium to help reduce salt levels in the soil profile

CHARACTERISTICS	VALUES
Approx. Longevity:	8 - 10 weeks
SGN/Particle Size	120 - 160
Cutting Height:	> 6mm
Nitrogen Source:	3.3% ammonium, 8.7% urea, 3.0% PSCU
Guaranteed Analysis:	15-5-15
Additional Elements:	12.6% CaO
Organic Matter:	-
Pack Size:	20 kgs
Pack Coverage:	500 - 1,000 m²
Application Rate:	20 - 40 g/m²

### Impact CGF 25-5-10 (40% PSCU)



Outfield 25-5-10 provides excellent nutrient availability in cool temperatures. The unique formulation process ensures free release of ammoniacal and ureic nitrogen immediately after application, providing an initial effect on growth. The added 2% MgO provides excellent green up, and the PSCU coating ensures very low nitrogen leaching.

SUGGESTED SOIL TEMPERATURES FOR APPLICATION					
Minimum 10°C		Optimum 16°C		Maximum 30°C	
NUTRITIENT LEVELS APPLIED (KG/HA) FROM ONE APPLICATION					
20 g/m²			40 g/m²		
N 50.0	P <sub>2</sub> O <sub>5</sub> 10.0	K <sub>2</sub> O 20.0	N 100.0	P <sub>2</sub> O <sub>5</sub> 20.0	K <sub>2</sub> O 40.0
PRODUCT CODE IG030810					

- ✓ KEY FEATURES
- 40% PSCU coating for increased longevity; 2-3 months nitrogen release
  - Excellent nutrient availability in cooler temperatures
  - Prevents scorch and minimises nutrient leaching
  - Contains added magnesium for improved turf colour and reduced turf stress

CHARACTERISTICS	VALUES
Approx. Longevity:	8 - 12 weeks
SGN/Particle Size	120 - 160
Cutting Height:	> 6mm
Nitrogen Source:	1.2% ammonium, 13.4% urea, 10.4% PSCU
Guaranteed Analysis:	25-5-10
Additional Elements:	2.0% MgO
Organic Matter:	-
Pack Size:	20 kgs
Pack Coverage:	500 - 1,000 m²
Application Rate:	20 - 40 g/m²

### Impact CGF 16-5-26 (40% PSCU)



Outfield 16-5-26 is an ideal feed for outfields, providing an excellent response even in cooler temperatures. The unique formulation process ensures early release of ammoniacal and ureic nitrogen, providing an initial growth effect. This, combined with the added 2% MgO delivers excellent plant green up. The 40% PSCU offered excellent longevity of release, helping to reduce the number of applications required per season.

SUGGESTED SOIL TEMPERATURES FOR APPLICATION					
Minimum 10°C		Optimum 16°C		Maximum 30°C	
NUTRITIENT LEVELS APPLIED (KG/HA) FROM ONE APPLICATION					
20 g/m²			40 g/m²		
N 32.0	P <sub>2</sub> O <sub>5</sub> 10.0	K <sub>2</sub> O 52.0	N 64.0	P <sub>2</sub> O <sub>5</sub> 20.0	K <sub>2</sub> O 104.0
PRODUCT CODE IG030812					

- ✓ KEY FEATURES
- 40% PSCU coating for increased longevity; 2-3 months nitrogen release
  - Contains added magnesium for improved turf colour and reduced turf stress
  - High potassium content offers plant durability in cooler weather
  - Prevents scorch and minimises nutrient leaching

CHARACTERISTICS	VALUES
Approx. Longevity:	8 - 12 weeks
SGN/Particle Size	120 - 160
Cutting Height:	> 6mm
Nitrogen Source:	1.3% ammonium, 8.3% urea, 6.4% PSCU
Guaranteed Analysis:	16-5-26
Additional Elements:	2.0% MgO
Organic Matter:	-
Pack Size:	20 kgs
Pack Coverage:	500 - 1,000 m²
Application Rate:	20 - 40 g/m²







Impact CGF 26-5-8 (60% PSCU)

Outfield 26-5-8 is a balanced summer feed that provides steady growth response. The free release of ammoniacal and ureic nitrogen provides an initial growth effect. The two step manufacturing process ensures a far more predictable nutrient release pattern in comparison to other blended PSCU products available.

KEY FEATURES

- 60% PSCU coating for increased longevity; 3+ months nitrogen release
- Reduces time and labour costs compared to conventional granular fertiliser
- Helps prevent scorch & will not produce excessive growth
- Contains added magnesium for improved turf colour and reduced turf stress

SUGGESTED SOIL TEMPERATURES FOR APPLICATION					
Minimum 10°C		Optimum 16°C		Maximum 30°C	

NUTRITIENT LEVELS APPLIED (KG/HA) FROM ONE APPLICATION					
20 g/m <sup>2</sup>			40 g/m <sup>2</sup>		
N 52.0	P <sub>2</sub> O <sub>5</sub> 10.0	K <sub>2</sub> O 16.0	N 104.0	P <sub>2</sub> O <sub>5</sub> 20.0	K <sub>2</sub> O 32.0

PRODUCT CODE IG030814

CHARACTERISTICS	VALUES
Approx. Longevity:	12 - 14 weeks
SGN/Particle Size	120 - 160
Cutting Height:	> 6mm
Nitrogen Source:	1.2% ammonium, 9.2% urea, 15.6% PSCU
Guaranteed Analysis:	26-5-8
Additional Elements:	2.0% MgO
Organic Matter:	-
Pack Size:	20 kgs
Pack Coverage:	500 - 1,000 m <sup>2</sup>
Application Rate:	20 - 40 g/m <sup>2</sup>



Impact CGF 28-8-8

Impact CGF 28-8-8 contains a high proportion of controlled release nitrogen from the 93% PSCU coating. This high nitrogen product is ideal for turf areas where continual feeding throughout the growing season is required. This environmentally friendly product has minimal nutrient losses through leaching, preventing environmental contamination and maximising the nutrients available to the plant.

KEY FEATURES

- 93% PSCU coating for increased longevity; 4-6 months nitrogen release
- A single application provides nutrition for the full growing season
- Nutrients are release to match the turf's requirements throughout the growing cycle
- Helps prevent scorch & will not produce excessive growth

SUGGESTED SOIL TEMPERATURES FOR APPLICATION					
Minimum 10°C		Optimum 16°C		Maximum 30°C	

NUTRITIENT LEVELS APPLIED (KG/HA) FROM ONE APPLICATION					
20 g/m <sup>2</sup>			40 g/m <sup>2</sup>		
N 56.0	P <sub>2</sub> O <sub>5</sub> 16.0	K <sub>2</sub> O 16.0	N 112.0	P <sub>2</sub> O <sub>5</sub> 32.0	K <sub>2</sub> O 32.0

PRODUCT CODE IG030821

CHARACTERISTICS	VALUES
Approx. Longevity:	18 - 24 weeks
SGN/Particle Size	120 - 160
Cutting Height:	> 6mm
Nitrogen Source:	1.9% ammonium, 26.1% PSCU
Guaranteed Analysis:	28-8-8
Additional Elements:	-
Organic Matter:	-
Pack Size:	20 kgs
Pack Coverage:	500 - 1,000 m <sup>2</sup>
Application Rate:	20 - 40 g/m <sup>2</sup>



Fine Turf Fertiliser

All TourBest Fine Turf Fertilisers incorporate a number of environmentally beneficial factors, helping them to promote a sustainable approach to sports turf management. They have been designed to work throughout the year, in a wide range of climates across a whole range of grass species.

specifically for the prevailing climactic conditions across the globe. The products in the range have an SGN of between 100 and 125, ensuring they are enough to be used on greens and tees without affecting playability.

**The fertilisers in the TourBest range have been designed to work throughout the year and in a wide range of climates, and will prove effective on all soil types and base nutrient levels.**

The TourBest granular fertiliser range includes both fine turf and outfield products. The products in the Fine Turf Fertiliser range have been developed

Product	Analysis	Approximate Rate	Longevity	Pack Coverage	Pack Size
IMPACTPLUS ACCELERATE	14-0-12 + 2.0% Fe	20 – 40 g/m <sup>2</sup>	4 – 6 weeks	500 – 1,000 m <sup>2</sup>	20 kgs
IMPACTPLUS VITALIZE	16-5-16 + 2.0% MgO	20 – 40 g/m <sup>2</sup>	4 – 6 weeks	500 – 1,000 m <sup>2</sup>	20 kgs
IMPACTPLUS SUMMER PERK	14-0-4 + 6.0% Fe	20 – 40 g/m <sup>2</sup>	6 – 12 weeks	500 – 1,000 m <sup>2</sup>	20 kgs
IMPACTPLUS EMERGE	10-20-10 + 2.0% Fe	20 – 40 g/m <sup>2</sup>	8 – 10 weeks	500 – 1,000 m <sup>2</sup>	20 kgs
QUANTUM PASPALUM 5-3-18	5-3-18 + 13.0% CaO + 2.0% MgO	20 – 40 g/m <sup>2</sup>	4 – 6 weeks	500 – 1,000 m <sup>2</sup>	20 kgs
IMPACTPLUS PERK	4-0-14 + 10.0% Fe	20 – 40 g/m <sup>2</sup>	6 – 12 weeks	500 – 1,000 m <sup>2</sup>	20 kgs
IMPACTPLUS ALL ROUND	5-5-15 + 3.0% MgO + 4.0% Fe	20 – 40 g/m <sup>2</sup>	4 – 6 weeks	500 – 1,000 m <sup>2</sup>	20 kgs
IMPACTPLUS SRF 19-0-19	19-0-19 + 2.0% Fe	20 – 40 g/m <sup>2</sup>	8 – 12 weeks	500 – 1,000 m <sup>2</sup>	20 kgs
IMPACTPLUS SRF 12-0-24	12-0-24	20 – 40 g/m <sup>2</sup>	8 – 12 weeks	500 – 1,000 m <sup>2</sup>	20 kgs
IMPACT ENHANCE	0-0-0 + 27.0% CaO	35 – 100 g/m <sup>2</sup>	4 – 6 weeks	500 – 1,000 m <sup>2</sup>	20 kgs
TOURBEST LAWN SAND	3-0-0 + 7.0% Fe	30 – 75 g/m <sup>2</sup>	2 – 4 weeks	500 – 1,000 m <sup>2</sup>	20 kgs





## Organo-Mineral Formulations

Organo-mineral fertilisers are a complex fertiliser, manufactured from a mix of organic and inorganic materials into, in this case, a solid (granular) form. The ImpactPlus products in the TourBest Fine Turf Fertiliser range enable turf managers move towards a more balanced approach to nutrition and soil biology. These Organo-mineral products are manufactured with a base material derived from an organic source. This organic source acts as a food source for the naturally occurring soil flora and fauna. All of the organic sources used in the manufacture of our products are plant based and do not contain any genetically modified raw materials.

The carbon/nitrogen (C/N) ratio of the soil is critical to the amount of nutrients which the turf can utilise. The C/N ratio of all of the ImpactPlus

products is extremely low, eliminating the risk that the soil microorganisms will 'steal' nitrogen from the soil and tie it up as they break down the carbon, resulting in nitrogen unavailable to the turf.

Utilising this organic source for our products has the added benefit of increasing the organic nitrogen within the total nitrogen contained in the product, an added benefit for all turf managers looking to move to an organic-based fertiliser programme.



## Slow Release from Methylene Urea

In order to provide increased longevity, slow release fertilisers (SRF) have also been incorporated into the TourBest Fine Turf Fertiliser range. These products provide natural organic, inorganic and methylene urea nitrogen sources, utilising a range of methylene urea chain lengths, to provide consistent and increased nitrogen release for up to 12 weeks.

The nitrogen in our slow release fertiliser (SRF) products is either released by hydrolysis or by microbial activity in the soil. As a result, there is far less nitrogen leaching into the soil, meaning fewer applications, a major benefit to the greenkeeper or groundsperson, as well as increased environmental benefits.

These different methylene urea chain lengths provide different nitrogen release times to ensure the plant always has the required nitrogen input. The organic and urea portions release first, providing initial green up. Monomethylene urea releases second and methylene diurea third. The final release phase is polymethylene urea. This gives the products a longevity of 8-12 weeks.

## An Active Bio-stimulant Coating

The ImpactPlus products in the TourBest Fine Turf Fertiliser range are coated in Asset Gold, a highly active bio-stimulant coating. They have been developed to promote healthy, strong turf, with the bio-stimulant coating further enhancing these benefits. By carefully selecting a number of different nutrients in a variety of formulations, the ImpactPlus products with the Asset Gold coating are highly effective on all soil types with differing base nutrient levels, and are proven to help improve turf vigour and root density.

The Asset Gold coating is a formulation of natural sustainable osmolytes specifically chosen to enhance root development and reduce abiotic stress. Through independent trials it has been proven to encourage vigour, recovery and root mass by providing specific amino acids that reducing the turfs own requirement to produce them during development and perturbations.

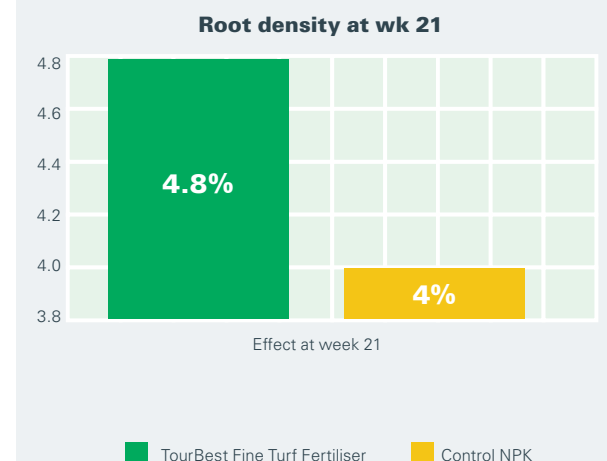
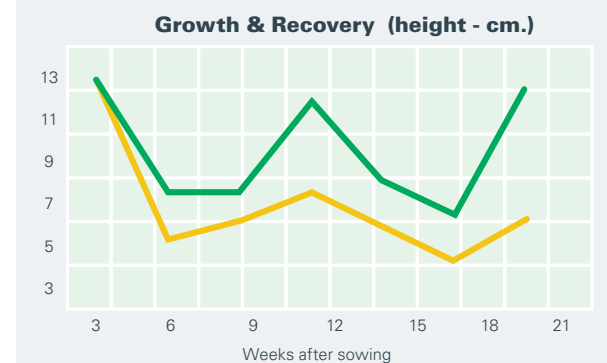
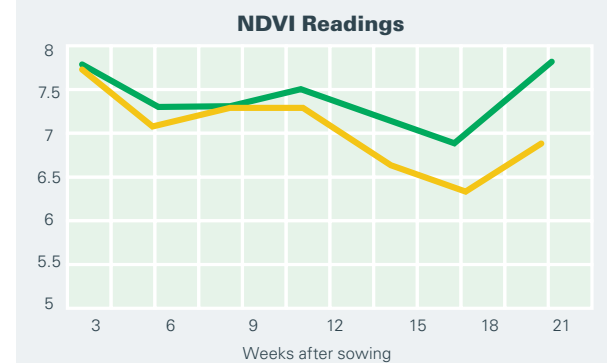
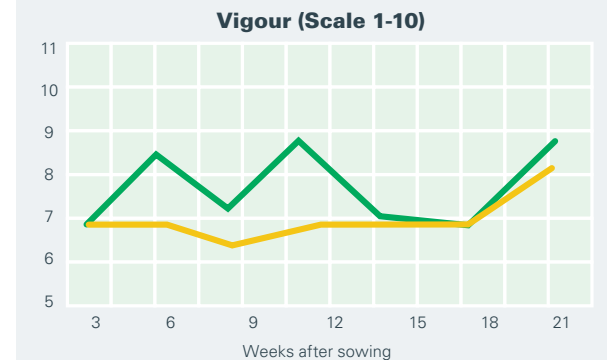
When stressed, plants naturally produce osmolytes to help combat the environmental stresses. Production is favoured under water-deficit or salt stress as they provide stress tolerance to cell without interfering cellular function. Asset Gold is one of a group of these osmolyte compounds and is extracted from a plant species which has naturally occurring high levels.

**Asset Gold helps overcome plant stress and aids recovery by:**

- ✓ Osmotic Regulation
- ✓ Cell Membrane Protection
- ✓ Reduction in Free Radical Production
- ✓ Protection of Photosynthetic Biochemical Pathways

The bio-stimulant, Asset Gold, has been proven in independent trials to increase ground cover of newly sown seed, increase levels of growth and recovery and improve root density. The ImpactPlus products within the TourBest Fine Turf Fertiliser range contain a plant derived organic base, resulting in a high organic matter percentage. This organic matter acts as a readily available food source for beneficial soil flora.

*Independent trial results support the use of the Asset Gold coating which improves osmotic regulation cell membrane protection reduction in free radical production and protection of photosynthetic biochemical pathways.*







ImpactPlus Accelerate 14-0-12

Accelerate 14-0-12 has been designed to provide recovery and early green up of greens, tees and fairways. It provides an acidifying effect and can be used on soils with high pH levels. Accelerate 14-0-12 has 1.2% organic nitrogen and contains added potassium for improved wear tolerance and greater disease resistance. Accelerate 14-0-12 is often used as a spring starter in the cooler climates.

SUGGESTED SOIL TEMPERATURES FOR APPLICATION					
Minimum 5°C		Optimum 16°C		Maximum 30°C	
NUTRITIENT LEVELS APPLIED (KG/HA) FROM ONE APPLICATION					
20 g/m²			40 g/m²		
N 28.0	P <sub>2</sub> O <sub>5</sub> 0.0	K <sub>2</sub> O 24.0	N 56.0	P <sub>2</sub> O <sub>5</sub> 0.0	K <sub>2</sub> O 48.0
PRODUCT CODE IG030214					

KEY FEATURES

- Offers excellent response when used as a cold start fertiliser
- Micro-prill homogenous fertiliser
- Swiftly dispersing granule minimises mower pickup
- Helps limit disease during periods of high pathogen activity

CHARACTERISTICS	VALUES
Approx. Longevity:	4 - 6 weeks
SGN/Particle Size	100 - 125
Cutting Height:	> 2mm
Nitrogen Source:	1.2% organic, 10.2% ammonium, 2.6% urea
Guaranteed Analysis:	14-0-12
Additional Elements:	2.0% Fe
Organic Matter:	13.7%
Pack Size:	20 kgs
Pack Coverage:	500 - 1,000 m²
Application Rate:	20 - 40 g/m²



ImpactPlus Vitalize 16-5-16

Vitalize 16-5-16 has been developed to have a NPK analysis that provides an acidifying response. Vitalize 16-5-16 has organic nitrogen and added magnesium to improve plant stress relief during the main growing season. The technological formulation also provides quick green up as well as slow release technology for added longevity. Vitalize 16-5-16 is based on plant-derived organic materials.

SUGGESTED SOIL TEMPERATURES FOR APPLICATION					
Minimum 8°C		Optimum 16°C		Maximum 30°C	
NUTRIENT LEVELS APPLIED (KG/HA) FROM ONE APPLICATION					
20 g/m²			40 g/m²		
N 32.0	P <sub>2</sub> O <sub>5</sub> 10.0	K <sub>2</sub> O 32.0	N 64.0	P <sub>2</sub> O <sub>5</sub> 20.0	K <sub>2</sub> O 64.0
PRODUCT CODE IG030215					

KEY FEATURES

- Good cool temperature response
- Improved plant stress control
- Added magnesium for improved stress relief
- Quick breakdown of granules with moisture

CHARACTERISTICS	VALUES
Approx. Longevity:	4 - 6 weeks
SGN/Particle Size	100 - 125
Cutting Height:	> 2mm
Nitrogen Source:	1.4% organic, 3.0% ammonium, 11.6% urea
Guaranteed Analysis:	16-5-16
Additional Elements:	2.0% MgO
Organic Matter:	15.5%
Pack Size:	20 kgs
Pack Coverage:	500 - 1,000 m²
Application Rate:	20 - 40 g/m²



ImpactPlus Summer Perk 14-0-4

The high nitrogen levels in ImpactPlus Summer Perk offer excellent top growth, ideal for the main growing season. With the higher urea content, this top growth is prolonged, minimising the need for regular applications. This mid-season fertiliser also offers potassium for improved disease resistance and iron for excellent colour. It is coated in Asset Gold, our unique biostimulant coating for improved stress relief increased root density.

SUGGESTED SOIL TEMPERATURES FOR APPLICATION					
Minimum 8°C		Optimum 16°C		Maximum 30°C	
NUTRIENT LEVELS APPLIED (KG/HA) FROM ONE APPLICATION					
20 g/m²			40 g/m²		
N 28.0	P <sub>2</sub> O <sub>5</sub> 0.0	K <sub>2</sub> O 8.0	N 56.0	P <sub>2</sub> O <sub>5</sub> 00.0	K <sub>2</sub> O 16.0
PRODUCT CODE IG030217					

KEY FEATURES

- Product of choice for regular use during the main growing season
- 6% phased release iron provides up to 12 weeks of green up
- Helps turf recovery during periods of increased or heavy use
- Consistent granules providing reliable nutrient release after application

CHARACTERISTICS	VALUES
Approx. Longevity:	6 - 12 weeks
SGN/Particle Size	100 - 125
Cutting Height:	> 2mm
Nitrogen Source:	1.7% organic, 3.0% ammonium, 9.3% urea
Guaranteed Analysis:	14-0-6 + Fe
Additional Elements:	6.0% Fe
Organic Matter:	26.5%
Pack Size:	20 kgs
Pack Coverage:	500 - 1,000 m²
Application Rate:	20 - 40 g/m²



ImpactPlus Emerge 10-20-10

Emerge 10-20-10 is ideal for use prior to seeding or over-seeding of turf. It has been designed to enhance germination and establishment of newly seeded or turfed areas. The high phosphorous content is essential for root development as well as the breakdown of carbohydrates and the transfer of energy. With 2.0% organic nitrogen, Emerge 10-20-10 displays good cool temperature response.

SUGGESTED SOIL TEMPERATURES FOR APPLICATION					
Minimum 8°C		Optimum 16°C		Maximum 30°C	
NUTRIENT LEVELS APPLIED (KG/HA) FROM ONE APPLICATION					
20 g/m²			40 g/m²		
N 20.0	P <sub>2</sub> O <sub>5</sub> 40.0	K <sub>2</sub> O 20.0	N 40.0	P <sub>2</sub> O <sub>5</sub> 80.0	K <sub>2</sub> O 40.0
PRODUCT CODE IG030216					

KEY FEATURES

- An ideal pre-seed or seed starter fertiliser when seeding or over-seeding
- Can be applied directly to the seed bed or on newly laid turf
- The nutrient release pattern matches the demands of new and young turf
- Asset Gold bio-stimulant coating increases turf vigour after establishment

CHARACTERISTICS	VALUES
Approx. Longevity:	8 - 10 weeks
SGN/Particle Size	100 - 125
Cutting Height:	> 2mm
Nitrogen Source:	2.0% organic, 8.0% ammonium
Guaranteed Analysis:	10-20-10 + Fe
Additional Elements:	2.0% Fe
Organic Matter:	22.5%
Pack Size:	20 kgs
Pack Coverage:	500 - 1,000 m²
Application Rate:	20 - 40 g/m²



ImpactPlus Perk 4-0-14 + 10% Fe

ImpactPlus Perk is a superior turf hardening product for use in cooler weather conditions. The combination of manganese, iron and potassium make this an ideal cool season turf hardening formulation but it has also been used as a pre-season fertiliser with great success. The 10% slow release iron provides excellent colour without overstimulating top growth. ImpactPlus Perk offers a superior and reliable nutrient release pattern for improved performance, working well at lower temperatures to offer early season growth and increased wear resistance.

SUGGESTED SOIL TEMPERATURES FOR APPLICATION					
Minimum 5°C		Optimum 16°C		Maximum 30°C	
NUTRIENT LEVELS APPLIED (KG/HA) FROM ONE APPLICATION					
20 g/m²			40 g/m²		
N 8.0	P <sub>2</sub> O <sub>5</sub> 0.0	K <sub>2</sub> O 28.0	N 16.0	P <sub>2</sub> O <sub>5</sub> 0.0	K <sub>2</sub> O 56.0
PRODUCT CODE IG030314					

KEY FEATURES

- A high potassium formulation with added slow release iron and manganese
- 10% phased release iron provides up to 12 weeks of green up
- An ideal turf hardener to help increase disease resistance
- Contains the Asset Gold bio-stimulant for increased stress relief and turf vigour

CHARACTERISTICS	VALUES
Approx. Longevity:	6 - 12 weeks
SGN/Particle Size	100 - 125
Cutting Height:	> 2mm
Nitrogen Source:	0.6% organic, 3.4% urea
Guaranteed Analysis:	4-0-14 + Fe
Additional Elements:	10.0% Fe, 1.0% Mn
Organic Matter:	19.3%
Pack Size:	20 kgs
Pack Coverage:	500 - 1,000 m²
Application Rate:	20 - 40 g/m²



Quantum Paspalum 5-3-18

Quantum Paspalum is a low nitrogen input fertiliser, specifically formulated for paspalum grasses. It contains high levels of potassium to help improve disease resistance, as well as added magnesium to help improve all round turf health and help improve turf colour. The high calcium level helps to leach soluble salts from the rootzone. Quantum Paspalum contains three nitrogen sources to provide slow, consistent nitrogen release, best suited to warm climate turf grass species.

SUGGESTED SOIL TEMPERATURES FOR APPLICATION					
Minimum 8°C		Optimum 20°C		Maximum 35°C	
NUTRIENT LEVELS APPLIED (KG/HA) FROM ONE APPLICATION					
20 g/m²			40 g/m²		
N 10.0	P <sub>2</sub> O <sub>5</sub> 6.0	K <sub>2</sub> O 36.0	N 20.0	P <sub>2</sub> O <sub>5</sub> 12.0	K <sub>2</sub> O 72.0
PRODUCT CODE IG031101					

KEY FEATURES

- Formulation to specifically suit warm season grasses such as Paspalum
- Non-acidifying formulation helps to balance rootzone pH
- Added magnesium to help improve turf health and colour without excessive growth
- Contains 13.3% calcium to help reduce salt levels in the soil profile

CHARACTERISTICS	VALUES
Approx. Longevity:	4 - 6 weeks
SGN/Particle Size	100 - 125
Cutting Height:	> 2mm
Nitrogen Source:	1.7% organic, 0.9% ammonium, 2.4% urea
Guaranteed Analysis:	5-3-18
Additional Elements:	13.3% CaO, 2.0% MgO
Organic Matter:	18.5%
Pack Size:	20 kgs
Pack Coverage:	500 - 1,000 m²
Application Rate:	20 - 40 g/m²





ImpactPlus SRF 19-0-19 (63% MU)

ImpactPlus SRF 19-0-19 is a homogenous fine turf fertiliser which provides a slow, gradual and consistent nutrient release to the plant from the high methylene urea content. The balanced NK analysis helps to promote good top growth and recovery during periods of heavy use. The phosphate-free formulation helps prevent the build-up of phosphate in the soil.

KEY FEATURES

- Minimal nutrient leaching due to slow nutrient release from methylene urea
- High potassium levels to lessen deficiency & help harden turf during periods of high stress
- Low salt content reduces potential for phytotoxicity
- Contains Asset Gold to improve turf vigour, root density and offer stress relief

SUGGESTED SOIL TEMPERATURES FOR APPLICATION					
Minimum 10°C		Optimum 25°C		Maximum 35°C	

NUTRITIENT LEVELS APPLIED (KG/HA) FROM ONE APPLICATION					
20 g/m <sup>2</sup>			40 g/m <sup>2</sup>		
N 38.0	P <sub>2</sub> O <sub>5</sub> 0.0	K <sub>2</sub> O 38.0	N 76.0	P <sub>2</sub> O <sub>5</sub> 0.0	K <sub>2</sub> O 76.0

PRODUCT CODE IG030522

CHARACTERISTICS	VALUES
Approx. Longevity:	8 - 12 weeks
SGN/Particle Size	100 - 125
Cutting Height:	> 2mm
Nitrogen Source:	0.7% organic, 2.6% urea, 12.0% methylene urea
Guaranteed Analysis:	19-0-19 + Fe
Additional Elements:	2.0% Fe
Organic Matter:	8.0%
Pack Size:	20 kgs
Pack Coverage:	500 - 1,000 m <sup>2</sup>
Application Rate:	20 - 40 g/m <sup>2</sup>



ImpactPlus SRF 12-0-24 (68% MU)

ImpactPlus SRF 12-0-24 is a homogenous, phosphate free, slow release fertiliser. The methylene urea N source provides a gradual and consistent nutrient release for up to 12 weeks and reduces the risk of nitrate leaching, scorch and runoff. The faster releasing urea nitrogen helps provides efficient potassium uptake.

KEY FEATURES

- High potassium levels provide improved drought tolerance
- Low salt content reduces potential for phytotoxicity
- Excellent turf hardener when used as a late season application
- Contains the Asset Gold bio-stimulant for plant stress relief and improved root density

SUGGESTED SOIL TEMPERATURES FOR APPLICATION					
Minimum 10°C		Optimum 25°C		Maximum 35°C	

NUTRITIENT LEVELS APPLIED (KG/HA) FROM ONE APPLICATION					
20 g/m <sup>2</sup>			40 g/m <sup>2</sup>		
N 24.0	P <sub>2</sub> O <sub>5</sub> 0.0	K <sub>2</sub> O 48.0	N 48.0	P <sub>2</sub> O <sub>5</sub> 0.0	K <sub>2</sub> O 96.0

PRODUCT CODE IG030524

CHARACTERISTICS	VALUES
Approx. Longevity:	8 - 12 weeks
SGN/Particle Size	100 - 125
Cutting Height:	> 2mm
Nitrogen Source:	1.4% organic, 2.5% urea, 8.1% methylene urea
Guaranteed Analysis:	12-0-24
Additional Elements:	-
Organic Matter:	15.5%
Pack Size:	20 kgs
Pack Coverage:	500 - 1,000 m <sup>2</sup>
Application Rate:	20 - 40 g/m <sup>2</sup>



Impact Enhance 27% CaO

Impact Enhance is an effective method of adding calcium and sulphur to the plant, without altering the NPK balance. It can also be applied to counteract problem soil conditions. Impact Enhance is produced from mined calcium sulphate and its controlled particle size ensures optimum plant availability. Applications of calcium help to remove the built up soil salts, commonly found where turfgrass is irrigated with sea water.

SUGGESTED SOIL TEMPERATURES FOR APPLICATION					
Minimum 8°C		Optimum 16°C		Maximum 30°C	

NUTRITIENT LEVELS APPLIED (KG/HA) FROM ONE APPLICATION					
35 g/m <sup>2</sup>			100 g/m <sup>2</sup>		
N 0.0	P <sub>2</sub> O <sub>5</sub> 0.0	K <sub>2</sub> O 0.0	N 0.0	P <sub>2</sub> O <sub>5</sub> 0.0	K <sub>2</sub> O 0.0

PRODUCT CODE IG030308

KEY FEATURES

- Calcium helps plants to absorb nutrients more efficiently
- Aids cell division and cell wall formation, critical for plant respiration during periods of high heat and/or humidity
- Beneficial in leaching soluble salts from the rootzone
- Breaks down rapidly with light irrigation

CHARACTERISTICS	VALUES
Approx. Longevity:	4 - 6 weeks
SGN/Particle Size	100 - 125
Cutting Height:	> 2mm
Nitrogen Source:	-
Guaranteed Analysis:	0-0-0
Additional Elements:	27.0% CaO
Organic Matter:	-
Pack Size:	20 kgs
Pack Coverage:	200 - 575 m <sup>2</sup>
Application Rate:	35 - 100 g/m <sup>2</sup>



TourBest Lawn Sand 3-0-0 + 7% Fe

TourBest Lawn Sand is a traditional dressing which contains high levels of iron and minimal nitrogen to provide rapid plant green up. It can also be used in cool seasons to help improve surface drainage and strengthen the plant. The iron content also helps to strengthen the plant against disease.

SUGGESTED SOIL TEMPERATURES FOR APPLICATION					
Minimum 8°C		Optimum 16°C		Maximum 30°C	

NUTRITIENT LEVELS APPLIED (KG/HA) FROM ONE APPLICATION					
35 g/m <sup>2</sup>			70 g/m <sup>2</sup>		
N 10.5	P <sub>2</sub> O <sub>5</sub> 0.0	K <sub>2</sub> O 0.0	N 21.0	P <sub>2</sub> O <sub>5</sub> 0.0	K <sub>2</sub> O 0.0

PRODUCT CODE TB090501

KEY FEATURES

- Contains 7% iron for rapid turf green up
- Helps strengthen the turf grass plant against disease
- Low nitrogen content helps avoid unwanted top growth

CHARACTERISTICS	VALUES
Approx. Longevity:	2 - 4 weeks
SGN/Particle Size	-
Cutting Height:	> 2mm
Nitrogen Source:	3.0% ammonium
Guaranteed Analysis:	3-0-0 + Fe
Additional Elements:	7.0% Fe
Organic Matter:	-
Pack Size:	20 kgs
Pack Coverage:	285 - 575 m <sup>2</sup>
Application Rate:	35 - 70 g/m <sup>2</sup>







***“Once a guy starts wearing silk pajamas it’s hard to get up early”***

**Eddie Arcaro**

American horse racing hall of fame member



## Soluble Fertiliser

**TourBest soluble fertilisers are fully soluble in water to provide instantly available nutrients for root and foliar uptake.** The products in the TourBest Soluble Fertiliser range allow for the correct quantities of nitrogen, phosphorous and potassium to be applied at difference stages of the growing season by mixing the required nutrients together in a tank mix.

The TourBest Soluble Fertiliser products are 100% soluble, NPK and micro nutrient fertilisers for application to a range of grass species.

Only the highest quality raw materials are used in these formulations. The Fusion products in this range are further enhanced by the addition of formulation aids which promote rapid solubility in the spray tank, compatibility with other products. These additions to the formulation of the Fusion products help enhance the spread of droplets after application and subsequent nutrient uptake by the leaf.

At normal application rates, water volumes and agitation, TourBest Soluble Fertiliser products will completely dissolve within a few minutes of being added to the spray tank.

Product	Analysis	Approximate Rate	Longevity	Pack Coverage	Pack Size
FUSION SOLUBLE N	46-0-0	20 kg/ha	2 – 4 weeks	5,000 m <sup>2</sup>	10 kgs
FUSION SOLUBLE NPK	32-5-10	20 kg/ha	2 – 4 weeks	5,000 m <sup>2</sup>	10 kgs
FUSION SOLUBLE HIGH K	13-0-46	20 kg/ha	2 – 4 weeks	5,000 m <sup>2</sup>	10 kgs
FUSION SOLUBLE FE	20.0% Fe	20 kg/ha	2 – 4 weeks	5,000 m <sup>2</sup>	10 kgs
TOURPLEX MICROTRACE	6.6% MgO, 0.5% B, 1.5% Cu, 4.0% Fe, 4.0% Mn, 0.1% Mo, 1.5% Zn	1 kg/ha	2 – 4 weeks	10 ha	10 kgs
TOURPLEX MN	20.0% Mn	1 kg/ha	2 – 4 weeks	10 ha	10 kgs
TOURPLEX ZN	20.0% Zn	1 kg/ha	2 – 4 weeks	10 ha	10 kgs
TOURPLEX CU	20.0% Cu	1 kg/ha	2 – 4 weeks	10 ha	10 kgs
TOURPLEX FE	20.0% Fe	1 kg/ha	2 – 4 weeks	10 ha	10 kgs
THE 'I' RANGE – SOLUBLE N (UREA)	46-0-0	10 – 40 kg/ha	2 – 3 weeks	5,000 – 20,000 m <sup>2</sup>	20 kgs
THE 'I' RANGE – SOLUBLE N (AM.SUL.)	21-0-0	10 – 40 kg/ha	2 – 3 weeks	5,000 – 20,000 m <sup>2</sup>	20 kgs
THE 'I' RANGE – SOLUBLE P	12-61-0	10 – 20 kg/ha	2 – 3 weeks	10,000 – 20,000 m <sup>2</sup>	20 kgs
THE 'I' RANGE – SOLUBLE K	0-0-50	10 – 20 kg/ha	2 – 3 weeks	10,000 – 20,000 m <sup>2</sup>	20 kgs
THE 'I' RANGE – SOLUBLE FE	20.0% Fe	10 – 20 kg/ha	2 – 3 weeks	10,000 – 20,000 m <sup>2</sup>	20 kgs
THE 'I' RANGE – SOLUBLE MG	9.8% Mg	10 – 20 kg/ha	2 – 3 weeks	10,000 – 20,000 m <sup>2</sup>	20 kgs
THE 'I' RANGE – SOLUBLE MN	32.0% Mn	10 – 20 kg/ha	2 – 3 weeks	10,000 – 20,000 m <sup>2</sup>	20 kgs



# TourBest Soluble Fertiliser

Water Soluble Fertilisers (WSF) can provide an economical method of supplying nutrients to managed turf. Often this is a favoured approach to nutrient maintenance on large areas of sports and amenity turf such as golf fairways and sports pitches, with the benefit of even application and efficient uptake when applied via suitable spray equipment. The most efficient method of application is little and often as with many fertilisers as this allows the optimum uptake and reduces potential nitrogen losses via volatilisation and leaching.

As well as the economic benefits of the high nutrient concentrations, WSFs suit situations where there is reduced storage which is often an issue. Reduced transport costs are also a key factor due to the lack of water content being transported.

**In order to maximise the efficacy of any WSF the raw materials in the formulation must be of the highest purity. Confirmation by analysis guarantee of impurity content is fundamental to quality products with traceable provenance.**

**To ensure that there is no limiting factor in terms of nutrition in the three Fusion soluble NPK fertilisers, a comprehensive package of chelated micronutrients containing Boron, Copper, Iron, Manganese, Molybdenum and Zinc is added during manufacture.**



TourBest Soluble Fertilisers are suitable for year round use in all climates they can all be used in tank mixes allowing for turf managers to supplement where necessary, particularly the secondary and micro nutrient formulations.

## Solubility

Solubility is a property referring to the ability for a given substance, the solute, to dissolve in a solvent. It is measured in terms of the maximum amount of solute dissolved in a solvent at equilibrium. The resulting solution is called a saturated solution.

**Solubility is obviously key to the concept of WSFs. Minimal insoluble content is required for the highest quality products, with <0.05% being the bench-mark for our products.**

Particle size is also vital for maximum solubility, with our products aiming for up to 99% of particles <1.0 mm this is to ensure no blockages to sprayer equipment and maximum surface area to increase solubility.

**All Fusion products in the range are also formulated with anti-caking agents to maintain condition and flowability.**



## Fusion Soluble N



Fusion Soluble N is a highly soluble source of nitrogen. It has been designed to work as a standalone product, or in conjunction with other fertilisers to boost nitrogen content in the soil. Fusion Soluble N is a cost-effective solution for managers with large areas of turf to feed and should be used as part of a planned nutrient programme.

- ✓ KEY FEATURES
- High nitrogen formulation, to provide quick green up and steady, continual growth
  - Cost effective alternative to conventional liquid fertiliser
  - Fully dissolves in the spray tank, even in cold water
  - Ideal for use in a tank mix where additional nitrogen content is required

SUGGESTED SOIL TEMPERATURES FOR APPLICATION					
Minimum 5°C		Optimum 15°C		Maximum -0°C	
NUTRIENT LEVELS APPLIED (KG/HA) FROM ONE APPLICATION					
10 kg/ha			20 kg/ha		
N 4.6	P <sub>2</sub> O <sub>5</sub> 0.0	K <sub>2</sub> O 0.0	N 9.2	P <sub>2</sub> O <sub>5</sub> 0.0	K <sub>2</sub> O 0.0
PRODUCT CODE IG050202					

CHARACTERISTICS	VALUES
Approx. Longevity:	2 - 4 weeks
Cutting Height:	> 2mm
Nitrogen Source:	46.0% urea
Guaranteed Analysis:	46-0-0
Additional Elements:	B, Cu, Fe, Mn, Mo, Zn
Organic Matter:	-
Pack Size:	10 kgs
Pack Coverage:	5,000 m <sup>2</sup>
Application Rate:	20 kg/ha
Water Rate:	300 - 600 lt/ha

## Fusion Soluble NPK



Fusion Soluble NPK contains 100% soluble, readily available, plant food. It has been designed to provide a constant source of plant available nutrients for all turf areas. The high nitrogen content provides excellent growth and the potassium content gives added cell wall strength and disease resistance. Fusion Soluble NPK should be used as part of a planned nutrient programme and can be spoon fed throughout the year.

- ✓ KEY FEATURES
- High nitrogen content from three nitrogen sources for great initial and prolonged growth
  - Fully balanced nutrient formulation
  - Economic alternative to conventional liquid fertiliser
  - Contains a comprehensive list of trace elements

SUGGESTED SOIL TEMPERATURES FOR APPLICATION					
Minimum 12°C		Optimum 15°C		Maximum -°C	
NUTRIENT LEVELS APPLIED (KG/HA) FROM ONE APPLICATION					
10 kg/ha			20 kg/ha		
N 3.2	P <sub>2</sub> O <sub>5</sub> 0.5	K <sub>2</sub> O 1.0	N 6.4	P <sub>2</sub> O <sub>5</sub> 1.0	K <sub>2</sub> O 2.0
PRODUCT CODE IG050201					

CHARACTERISTICS	VALUES
Approx. Longevity:	2 - 4 weeks
Cutting Height:	> 2mm
Nitrogen Source:	2.9% nitrate, 1.9% ammonium, 27.0% urea
Guaranteed Analysis:	32-5-10
Additional Elements:	B, Cu, Fe, Mn, Mo, Zn
Organic Matter:	-
Pack Size:	10 kgs
Pack Coverage:	5,000 m <sup>2</sup>
Application Rate:	20 kg/ha
Water Rate:	300 - 600 lt/ha





Fusion Soluble High K

Fusion Soluble High K contains a high concentration of potassium. The potassium provides additional cell wall strength and drought control for the plant. It provides an excellent green up and growth for up to four weeks, and can be used throughout the growing season, but is particularly effective when applied before periods of expected stress, such as drought. Fusion Soluble High K should be used as part of a planned nutrient programme.

✓ KEY FEATURES

- High potassium formulation for improved cell wall strength and drought control
- Includes nitrate nitrogen for excellent immediate turf response
- Provides excellent cool temperature response
- Fully dissolves in the spray tank, even in cold water

SUGGESTED SOIL TEMPERATURES FOR APPLICATION

Minimum 8°C	Optimum 15°C	Maximum -°C
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NUTRITIENT LEVELS APPLIED (KG/HA) FROM ONE APPLICATION

10 kg/ha			20 kg/ha		
N 1.3	P <sub>2</sub> O <sub>5</sub> 0.0	K <sub>2</sub> O 4.6	N 2.6	P <sub>2</sub> O <sub>5</sub> 0.0	K <sub>2</sub> O 9.2

PRODUCT CODE IG050204

CHARACTERISTICS VALUES

Approx. Longevity:	2 - 4 weeks
Cutting Height:	> 2mm
Nitrogen Source:	13.0% nitrate
Guaranteed Analysis:	13-0-46
Additional Elements:	B, Cu, Fe, Mn, Mo, Zn
Organic Matter:	-
Pack Size:	10 kgs
Pack Coverage:	5,000 m <sup>2</sup>
Application Rate:	20 kg/ha
Water Rate:	300 - 600 lt/ha



Fusion Soluble Fe

Fusion Soluble Fe is a highly soluble ferrous sulphate powder. It contains 20% iron for the economic treatment of large areas of turf. Fusion Soluble Fe has been designed to dissolve quickly in water, and once applied to the turf the sulphur in Fusion Soluble Fe helps to temporarily reduce the pH levels in the soil.

✓ KEY FEATURES

- Produces dark green turf in all conditions
- Toughens sward for improved disease resistance
- Economic alternative to conventional liquid fertiliser
- Tank mix compatible with Fusion Soluble N and High K

SUGGESTED SOIL TEMPERATURES FOR APPLICATION

Minimum 6°C	Optimum 14°C	Maximum -°C
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NUTRITIENT LEVELS APPLIED (KG/HA) FROM ONE APPLICATION

10 kg/ha			20 kg/ha		
N 0.0	P <sub>2</sub> O <sub>5</sub> 0.0	K <sub>2</sub> O 0.0	N 0.0	P <sub>2</sub> O <sub>5</sub> 0.0	K <sub>2</sub> O 0.0

PRODUCT CODE IG050203

CHARACTERISTICS VALUES

Approx. Longevity:	2 - 4 weeks
Cutting Height:	> 2mm
Nitrogen Source:	-
Guaranteed Analysis:	20% Fe
Additional Elements:	-
Organic Matter:	-
Pack Size:	10 kgs
Pack Coverage:	5,000 m <sup>2</sup>
Application Rate:	20 kg/ha
Water Rate:	300 - 600 lt/ha



TourPlex Microtrace

TourPlex Microtrace contains a full range of micronutrients which help to reduce a wide range of common deficiencies. This can be a very cost effective method of ensuring that your turf is no found to be deficient as it allows for a full trace element package to be included in every tank mix.

✓ KEY FEATURES

- Contains: 6.6% MgO, 0.5% B, 1.5% Cu, 4.0% Fe, 4.0% Mn, 0.1% Mo, 1.5% Zn
- Highly cost effective insurance treatment
- Provides visible improvement in appearance
- Complexed/Chelated for optimum compatibility

SUGGESTED SOIL TEMPERATURES FOR APPLICATION

Minimum 10°C	Optimum 20°C	Maximum -°C
--------------	--------------	-------------

NUTRITIENT LEVELS APPLIED (KG/HA) FROM ONE APPLICATION

1 kg/ha		
N 0.0	P <sub>2</sub> O <sub>5</sub> 0.0	K <sub>2</sub> O 0.0

PRODUCT CODE TB030110

CHARACTERISTICS VALUES

Approx. Longevity:	2 - 4 weeks
Cutting Height:	> 2mm
Guaranteed Analysis:	6.6% MgO, 0.5% B, 1.5% Cu, 4.0% Fe, 4.0% Mn, 0.1% Mo, 1.5% Zn
Pack Size:	10 kgs
Pack Coverage:	10 ha
Application Rate:	1 kg/ha
Water Rate:	300 lt/ha



TourPlex Mn

Manganese is often deficient in sand-based root zones. TourPlex Mn has been developed to help rectify manganese deficiency in the plant and restore the required nutrients.

✓ KEY FEATURES

- Provides visible improvement in appearance
- Assists in the fight against fungal disease, especially Take-All patch
- Complexed/Chelated for optimum compatibility

SUGGESTED SOIL TEMPERATURES FOR APPLICATION

Minimum 10°C	Optimum 20°C	Maximum -°C
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NUTRITIENT LEVELS APPLIED (KG/HA) FROM ONE APPLICATION

1 kg/ha		
N 0.0	P <sub>2</sub> O <sub>5</sub> 0.0	K <sub>2</sub> O 0.0

PRODUCT CODE TB030105

CHARACTERISTICS VALUES

Approx. Longevity:	2 - 4 weeks
Cutting Height:	> 2mm
Guaranteed Analysis:	20.0% Mn
Pack Size:	10 kgs
Pack Coverage:	10 ha
Application Rate:	1 kg/ha
Water Rate:	300 lt/ha



TourPlex Zn

TourPlex Zn helps to restore a zinc deficiency in turf. A zinc deficiency can cause the turf to become yellow in color, slow down top growth and produce denser leaves. TourPlex Zn can be added to any tank mix for ease of application and simple cure of the deficiency.

✓ KEY FEATURES

- Provides visible improvement in appearance
- Rectifies specific deficiency in the plant
- Complexed/Chelated for optimum compatibility

SUGGESTED SOIL TEMPERATURES FOR APPLICATION

Minimum 10°C	Optimum 20°C	Maximum -°C
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NUTRITIENT LEVELS APPLIED (KG/HA) FROM ONE APPLICATION

1 kg/ha		
N 0.0	P <sub>2</sub> O <sub>5</sub> 0.0	K <sub>2</sub> O 0.0

PRODUCT CODE TB030106

CHARACTERISTICS VALUES

Approx. Longevity:	2 - 4 weeks
Cutting Height:	> 2mm
Guaranteed Analysis:	20.0% Zn
Pack Size:	10 kgs
Pack Coverage:	10 ha
Application Rate:	1 kg/ha
Water Rate:	300 lt/ha







TourPlex Cu

Copper is an essential micro nutrient for turf. It is required for the plant to photosynthesise. TourPlex Cu can help to rectify a Copper deficiency, and can be applied into any tank mix, ensuring it is highly practical.

✓ KEY FEATURES

- Rectifies specific deficiency in the plant
- Provides visible improvement in appearance
- Complexed/Chelated for optimum compatibility

SUGGESTED SOIL TEMPERATURES FOR APPLICATION		
Minimum 10°C	Optimum 20°C	Maximum -0°C
NUTRITIENT LEVELS APPLIED (KG/HA) FROM ONE APPLICATION		
1 kg/ha		
N 0.0	P <sub>2</sub> O <sub>5</sub> 0.0	K <sub>2</sub> O 0.0
PRODUCT CODE TB030107		

CHARACTERISTICS	VALUES
Approx. Longevity:	2 - 4 weeks
Cutting Height:	> 2mm
Guaranteed Analysis:	20.0% Cu
Pack Size:	10 kgs
Pack Coverage:	10 ha
Application Rate:	1 kg/ha
Water Rate:	300 lt/ha



TourPlex Fe

TourPlex Fe contains 20% iron, which can be used to help to improve the color of the turf. Iron is an integral part of the chlorophyll molecule, which helps with photosynthesis. TourPlex Fe will help provide an excellent green color without promoting excessive growth.

✓ KEY FEATURES

- Iron is integral part of chlorophyll molecule
- Does not promote lush growth
- Rectifies specific deficiency in the plant
- Provides visible improvement in appearance
- Complexed/Chelated for optimum compatibility

SUGGESTED SOIL TEMPERATURES FOR APPLICATION		
Minimum 10°C	Optimum 20°C	Maximum -0°C
NUTRITIENT LEVELS APPLIED (KG/HA) FROM ONE APPLICATION		
1 kg/ha		
N 0.0	P <sub>2</sub> O <sub>5</sub> 0.0	K <sub>2</sub> O 0.0
PRODUCT CODE TB030108		

CHARACTERISTICS	VALUES
Approx. Longevity:	2 - 4 weeks
Cutting Height:	> 2mm
Guaranteed Analysis:	20.0% Fe
Pack Size:	10 kgs
Pack Coverage:	10 ha
Application Rate:	1 kg/ha
Water Rate:	300 lt/ha



The 'i' Range - Soluble N (Urea)

Highly soluble nitrogen which provides cost effective nutrition for large areas of turf suitable for increasing leaf production when required. Readily absorbed by both roots and foliage when applied to turf for quick response.

✓ KEY FEATURES

- Manufactured from urea
- Helps to increase growth
- Highly soluble

SUGGESTED SOIL TEMPERATURES FOR APPLICATION		
Minimum 8°C	Optimum 16°C	Maximum 30°C
NUTRITIENT LEVELS APPLIED (KG/HA) FROM ONE APPLICATION		
10 kg/ha		
N 4.6	P <sub>2</sub> O <sub>5</sub> 0.0	K <sub>2</sub> O 0.0
PRODUCT CODE IB060101		

CHARACTERISTICS	VALUES
Approx. Longevity:	2 - 3 weeks
Cutting Height:	> 2mm
Nitrogen Source:	46.0% urea
Guaranteed Analysis:	46-0-0
Additional Elements:	-
Organic Matter:	-
Pack Size:	20 kgs
Pack Coverage:	5,000 - 20,000 m <sup>2</sup>
Application Rate:	10 - 40 kg/ha
Water Rate:	300 - 600 lt/ha



The 'i' Range - Soluble N (Am.Sul.)

Suitable for application to larger areas requiring short term green up and production of leafy growth. Provides cost effective solution to nutrient supply where time is not a constraint and conditions are suitable for liquid applications. Low pH solution with the potential to lower pH over time.

✓ KEY FEATURES

- Manufactured from ammonium sulphate
- Helps to increase growth
- Highly soluble

SUGGESTED SOIL TEMPERATURES FOR APPLICATION		
Minimum 8°C	Optimum 16°C	Maximum 30°C
NUTRITIENT LEVELS APPLIED (KG/HA) FROM ONE APPLICATION		
10 kg/ha		
N 2.1	P <sub>2</sub> O <sub>5</sub> 0.0	K <sub>2</sub> O 0.0
PRODUCT CODE IB060103		

CHARACTERISTICS	VALUES
Approx. Longevity:	2 - 3 weeks
Cutting Height:	> 2mm
Nitrogen Source:	21.0% ammonium
Guaranteed Analysis:	21-0-0
Additional Elements:	-
Organic Matter:	-
Pack Size:	20 kgs
Pack Coverage:	5,000 - 20,000 m <sup>2</sup>
Application Rate:	10 - 40 kg/ha
Water Rate:	300 - 600 lt/ha







The ‘i’ Range - Soluble P

Applications of phosphorous can help to reduce plant stress, particularly in warmer conditions. This product can help to boost all round plant health, as well as improve the plants resistance to disease. Applications of phosphorous are also important when seeding or overseeding to help with establishment.

✓ KEY FEATURES

- Helps to reduce plant stress
- Improves plants resistance to disease
- Highly soluble

SUGGESTED SOIL TEMPERATURES FOR APPLICATION					
Minimum 8°C		Optimum 16°C		Maximum 30°C	
NUTRITIENT LEVELS APPLIED (KG/HA) FROM ONE APPLICATION					
10 kg/ha			20 kg/ha		
N 1.2	P <sub>2</sub> O <sub>5</sub> 6.1	K <sub>2</sub> O 0.0	N 2.4	P <sub>2</sub> O <sub>5</sub> 12.2	K <sub>2</sub> O 0.0
PRODUCT CODE IB060104					

CHARACTERISTICS	VALUES
Approx. Longevity:	2 - 3 weeks
Cutting Height:	> 2mm
Nitrogen Source:	12.0% ammonium
Guaranteed Analysis:	12-61-0
Additional Elements:	-
Organic Matter:	-
Pack Size:	20 kgs
Pack Coverage:	5,000 - 10,000 m <sup>2</sup>
Application Rate:	10 - 20 kg/ha
Water Rate:	300 - 600 lt/ha



The ‘i’ Range - Soluble K

Highly soluble and available source of Potassium which is known to be an enzyme activator and promotes metabolism. Potassium also assists in water regulation by stomata. Potassium also plays a major role in photosynthesis and been shown to improve disease resistance.

✓ KEY FEATURES

- Helps improve turf hardness
- Improves cell wall strength
- Highly soluble
- Addresses low levels of potassium

SUGGESTED SOIL TEMPERATURES FOR APPLICATION					
Minimum 8°C		Optimum 16°C		Maximum 30°C	
NUTRIENT LEVELS APPLIED (KG/HA) FROM ONE APPLICATION					
10 kg/ha			20 kg/ha		
N 0.0	P <sub>2</sub> O <sub>5</sub> 0.0	K <sub>2</sub> O 5.0	N 0.0	P <sub>2</sub> O <sub>5</sub> 0.0	K <sub>2</sub> O 10.0
PRODUCT CODE IB060107					

CHARACTERISTICS	VALUES
Approx. Longevity:	2 - 3 weeks
Cutting Height:	> 2mm
Nitrogen Source:	-
Guaranteed Analysis:	0-0-50
Additional Elements:	-
Organic Matter:	-
Pack Size:	20 kgs
Pack Coverage:	5,000 - 10,000 m <sup>2</sup>
Application Rate:	10 - 20 kg/ha
Water Rate:	300 - 600 lt/ha



The ‘i’ Range - Soluble Fe

An economical form of iron where larger areas require an aesthetic green up boost. Iron is involved in chlorophyll production, energy transfer, nitrogen fixation and lignin formation, making this an ideal product for all round plant health. Poorly aerated or compacted soils also reduce iron uptake by plants, and should be considered before application.

✓ KEY FEATURES

- Provides aesthetic green up
- Highly soluble
- Helps in iron deficient areas

SUGGESTED SOIL TEMPERATURES FOR APPLICATION					
Minimum 8°C		Optimum 16°C		Maximum 30°C	
NUTRITIENT LEVELS APPLIED (KG/HA) FROM ONE APPLICATION					
10 kg/ha			20 kg/ha		
N 0.0	P <sub>2</sub> O <sub>5</sub> 0.0	K <sub>2</sub> O 0.0	N 0.0	P <sub>2</sub> O <sub>5</sub> 0.0	K <sub>2</sub> O 0.0
PRODUCT CODE IB060110					

CHARACTERISTICS	VALUES
Approx. Longevity:	2 - 3 weeks
Cutting Height:	> 2mm
Nitrogen Source:	-
Guaranteed Analysis:	20% Fe
Additional Elements:	-
Organic Matter:	-
Pack Size:	20 kgs
Pack Coverage:	5,000 - 10,000 m <sup>2</sup>
Application Rate:	10 - 20 kg/ha
Water Rate:	300 - 600 lt/ha



The ‘i’ Range - Soluble Mg

This products can be used for the alleviation of Magnesium deficiency or where a deficiency is suspected. This highly soluble formulation provides high levels of readily available Magnesium which is used in in photosynthesis and also assists in the movement of sugars around the plant.

✓ KEY FEATURES

- Assists in Magnesium deficient areas
- Highly soluble
- Assists in photosynthesis

SUGGESTED SOIL TEMPERATURES FOR APPLICATION					
Minimum 8°C		Optimum 16°C		Maximum 30°C	
NUTRIENT LEVELS APPLIED (KG/HA) FROM ONE APPLICATION					
10 kg/ha			20 kg/ha		
N 0.0	P <sub>2</sub> O <sub>5</sub> 0.0	K <sub>2</sub> O 0.0	N 0.0	P <sub>2</sub> O <sub>5</sub> 0.0	K <sub>2</sub> O 0.0
PRODUCT CODE IB060116					

CHARACTERISTICS	VALUES
Approx. Longevity:	2 - 3 weeks
Cutting Height:	> 2mm
Nitrogen Source:	-
Guaranteed Analysis:	9.8% Mg
Additional Elements:	-
Organic Matter:	-
Pack Size:	20 kgs
Pack Coverage:	5,000 - 10,000 m <sup>2</sup>
Application Rate:	10 - 20 kg/ha
Water Rate:	300 - 600 lt/ha



The ‘i’ Range - Soluble Mn

Manganese is necessary for photosynthesis, nitrogen metabolism, compound formation and general plant metabolism. This should be applied where signs of deficiency have occurred. This is a highly soluble formulation to alleviate symptoms of Mn deficiency, which can occur in dry soils which are well aerated.

✓ KEY FEATURES

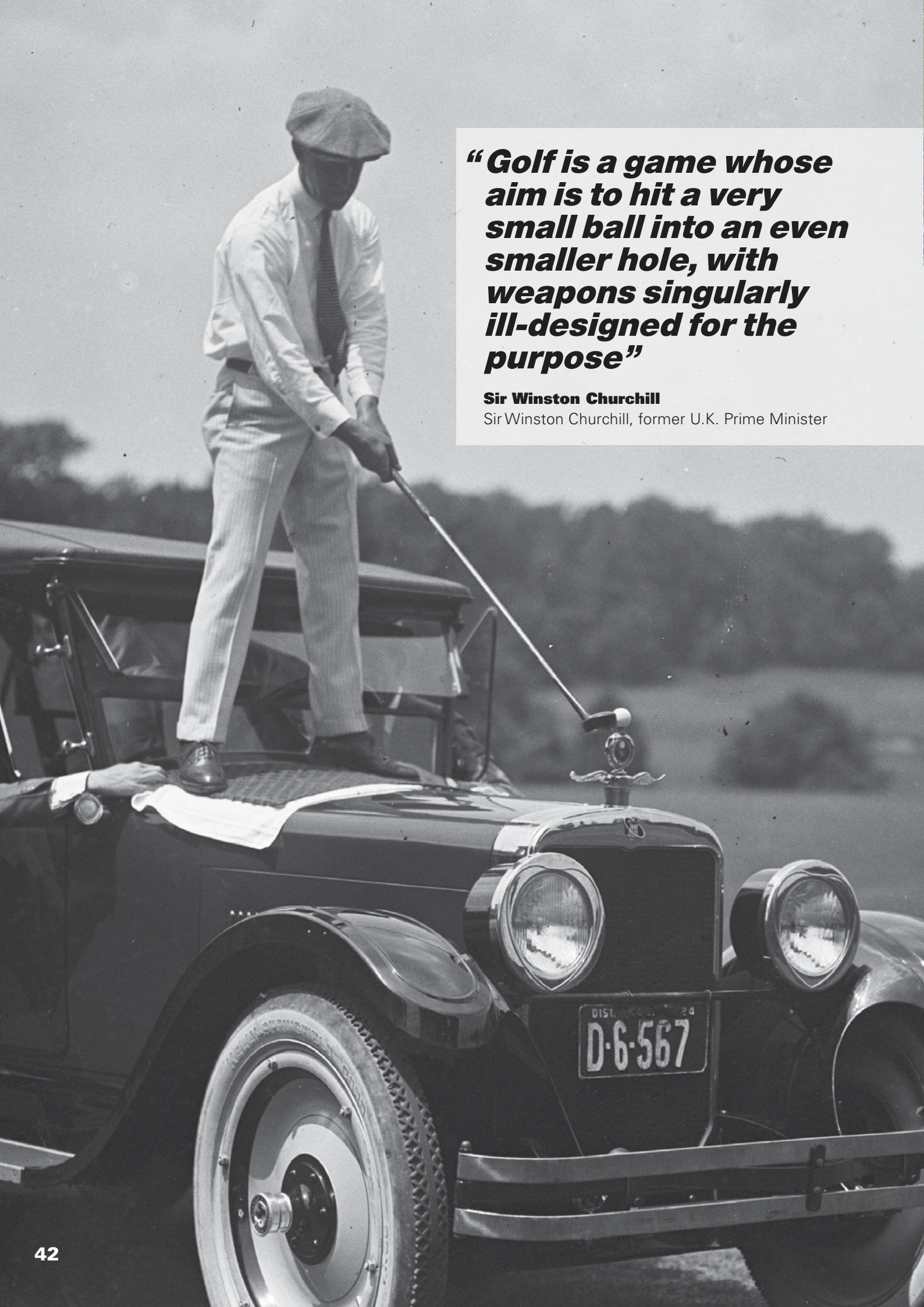
- Assists in Manganese deficient areas
- Highly soluble
- Assists in photosynthesis

SUGGESTED SOIL TEMPERATURES FOR APPLICATION					
Minimum 8°C		Optimum 16°C		Maximum 30°C	
NUTRITIENT LEVELS APPLIED (KG/HA) FROM ONE APPLICATION					
10 kg/ha			20 kg/ha		
N 0.0	P <sub>2</sub> O <sub>5</sub> 0.0	K <sub>2</sub> O 0.0	N 0.0	P <sub>2</sub> O <sub>5</sub> 0.0	K <sub>2</sub> O 0.0
PRODUCT CODE IB060113					

CHARACTERISTICS	VALUES
Approx. Longevity:	2 - 3 weeks
Cutting Height:	> 2mm
Nitrogen Source:	-
Guaranteed Analysis:	32% Mn
Additional Elements:	-
Organic Matter:	-
Pack Size:	20 kgs
Pack Coverage:	5,000 - 10,000 m <sup>2</sup>
Application Rate:	10 - 20 kg/ha
Water Rate:	300 - 600 lt/ha







***“Golf is a game whose aim is to hit a very small ball into an even smaller hole, with weapons singularly ill-designed for the purpose”***

**Sir Winston Churchill**  
Sir Winston Churchill, former U.K. Prime Minister



## Plant Health Enhancers

The pressure to reduce chemical inputs for plant protection due to environmental concerns has gathered substantial momentum over the last decade. Alternative natural sustainable solutions have been promoted at a rapid pace to counter the reduction in new approvals and reduced listings of the approved chemical products. Many of the alternatives are bio-stimulant based with several having a long history of applications within agricultural, horticultural and turf & amenity situations.

**The TourBest range of Plant Health Enhancers are designed to work effectively in conjunction with one another to provide the maximum benefit**

**to the plant.** The unique bio-stimulant properties of Asset Gold in conjunction with the natural chitin content of Asset Chitosan and the innovative foliar nutrition properties of Asset Titanium ensure excellent all-round plant health and colour, with or without the use of plant protection products.

These products do not just offer environmental benefits to the turf, but also in their usage. They can be tank mixed with a wide range of TourBest and other products, which due to reduced numbers of applications, helps to reduce water use when applying products, along with the added bonus of labour savings.

Product	Analysis	Approximate Rate	Longevity	Pack Coverage	Pack Size
ASSET GOLD	bio-stimulant complex	1 – 3 lt/ha	4 – 6 weeks	3,300 – 10,000 m <sup>2</sup>	1 lt
ASSET CHITOSAN	10.0% Chitosan	1 – 3 lt/ha	4 – 6 weeks	3,300 – 10,000 m <sup>2</sup>	1 lt
ASSET TITANIUM	0.6% Ti + trace elements	1 – 3 lt/ha	4 – 6 weeks	3,300 – 10,000 m <sup>2</sup>	1 lt



## Asset Gold – A natural plant bio-stimulant

Asset Gold has been developed as targeted stress relief of abiotic stress in a concentrated formulation for increased rapid impact. The formulation is based on sustainable naturally produced plant osmolytes specifically aimed at countering many stressful situations including anaerobic, drought and saline conditions.

The raw materials are derived from plants which have evolved in harsh environments and produce significant amounts of these amino acids in order to survive. These osmolytes keep the osmotic balance of the plant cells to enhance functionality of the organelles, maintain

turgidity and reduce the impact and subsequent damage of reactive oxygen species.

**One of the plants natural defence mechanisms to the many turf grass stresses is to increase the production of the amino acid Proline, which reduces the damaging ‘Free Radicals’ which attack plant cells.** Our latest trial work highlights the impact Asset Gold has on the plants natural ability to produce a range of amino acids, including Proline, as well as increasing chlorophyll levels.

## Asset Chitosan - Sustainable, natural, bio-polymer

Asset Chitosan is our liquid formulation to enhance turf health and help develop resilience to perturbation throughout the growing season. **A scheduled and planned approach will offer maximum benefits to turf health by pre-empting periods of increased biotic and abiotic stress.**

Chitosan has been shown through peer reviewed research over many decades to trigger defensive responses to biotic and abiotic stress when applied to turf grass it also has priming effects to enhance

microbial activity. One of the main theories is that the chitosan causes a vaccine like effect causing the turf to build additional cell wall protection via lignification.

Chitinous materials due to their elicitor qualities control fungal diseases in plants by the inhibition of the pathogens resulting in their decomposition, by also having a fertiliser effect, stimulating/supporting the growth of beneficial microorganisms, and by the elicitor activity of chitin.

## Asset Titanium - A Beneficial Turf Nutrient

Asset Titanium is based on high quality raw materials to provide a highly soluble form of Titanium. It is manufactured by formulating with specific ferrotitanium raw materials, uniquely for the purpose of turf grass nutrition. Titanium has bio-stimulant qualities in the way it triggers biochemical processes when applied to turf grass.

One of the main effects cited by the research is the increase in Chlorophyll production. This is just one of many actions that occur when Ti in the plant available form are applied. The mode of action of titanium is that initially it is taken up by ligands that would ordinarily be occupied by iron and magnesium as it is

synergistic at low levels of iron.

The first reaction of the plant is to build biomass and as a result, increased nitrate reductase production creates a cyclical process to build biomass and increase nitrogen uptake. The second major process is the increased uptake of iron and magnesium from the rhizosphere, where the roots are primed to increase more active foraging for these nutrients. The overall result is increased biomass and chlorophyll production which has been the initial findings of our independent field trial. **The formulation has not only titanium, but also a balanced micronutrient package and a unique biopolymer to increase the efficacy of the product.**



### Asset Gold

Asset Gold is a plant bio-stimulant specifically used when plants are under stress from extreme climatic conditions, poor soil environment including salinity, water logging and drought as well as pest and disease attack. It contains an amino acid derivative which is extracted exclusively from plant species that naturally exhibit resistance to abiotic stress. Asset Gold is an osmolyte and plays a role in maintaining cell water balance. It also stimulates the plants natural production of essential amino acids, such as proline.

#### ✓ KEY FEATURES

- Naturally derived plant stress relief agent containing amino acids
- Helps maintain ideal water balance within the plant cells
- Stimulates the plants natural production of amino acids, including proline
- Highly concentrated to offer a very low application rate

#### SUGGESTED SOIL TEMPERATURES FOR APPLICATION

Minimum 10°C	Optimum 20°C	Maximum 30°C
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#### NUTRITIENT LEVELS APPLIED (KG/HA) FROM ONE APPLICATION

1 lt/ha			3 lt/ha		
N 0.0	P <sub>2</sub> O <sub>5</sub> 0.0	K <sub>2</sub> O 0.0	N 0.0	P <sub>2</sub> O <sub>5</sub> 0.0	K <sub>2</sub> O 0.0

#### PRODUCT CODE IG020101

#### CHARACTERISTICS VALUES

Approx. Longevity:	4 - 6 weeks
Cutting Height:	> 2mm
Nitrogen Source:	-
Guaranteed Analysis (w/v):	-
Additional Elements:	-
Organic Matter:	-
Pack Size:	1 lt
Pack Coverage:	3,300 - 10,000 m <sup>2</sup>
Application Rate:	1 - 3 lt/ha
Water Rate:	300 - 600 lt/ha



### Asset Chitosan

Asset Chitosan is a foliar plant health product based on chitin, found in shells of shrimp and other crustaceans. Chitosan is derived from natural sustainable organic bio-polymers (complex carbohydrate compounds). This unique formulation increases plant health by supplying plant available carbohydrates to the turf supporting and retaining much needed energy within the plant to maintain root mass and turf coverage.

#### ✓ KEY FEATURES

- Chitosan strengthens plants to resist disease, pest damage and drought
- Derived from natural ingredients
- Highly concentrated to offer a very low application rate
- An ideal tank mix partner with Asset Gold and Asset Titanium

#### SUGGESTED SOIL TEMPERATURES FOR APPLICATION

Minimum 10°C	Optimum 20°C	Maximum 30°C
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#### NUTRITIENT LEVELS APPLIED (KG/HA) FROM ONE APPLICATION

1 lt/ha			3 lt/ha		
N 0.0	P <sub>2</sub> O <sub>5</sub> 0.0	K <sub>2</sub> O 0.0	N 0.0	P <sub>2</sub> O <sub>5</sub> 0.0	K <sub>2</sub> O 0.0

#### PRODUCT CODE IG020103

#### CHARACTERISTICS VALUES

Approx. Longevity:	4 - 6 weeks
Cutting Height:	> 2mm
Nitrogen Source:	-
Guaranteed Analysis (w/v):	10.0% Chitosan
Additional Elements:	-
Organic Matter:	-
Pack Size:	1 lt
Pack Coverage:	3,300 - 10,000 m <sup>2</sup>
Application Rate:	1 - 3 lt/ha
Water Rate:	300 - 600 lt/ha



### Asset Titanium

Asset Titanium is a new innovative foliar nutrition formulation to enhance the overall colour and plant health properties of quality sports turf. High iron inputs to increase chlorophyll production on stadium pitches causes the gradual acidification of the sand-based rootzones. The Titanium (Ti) content is able to replace iron in the production of chlorophyll and can be used at far lower application rates, to alleviate chlorosis. The unique combination of Titanium and a sustainable bio-polymer, enhances turf colour without high iron input.

#### ✓ KEY FEATURES

- Offers television friendly, deep green sports surfaces in shaded areas of stadia
- Particularly effective where growing lights are used
- Maintains optimum aesthetics for all sports and amenity turf without excess growth
- Ideal for use on any shaded area of turf

#### SUGGESTED SOIL TEMPERATURES FOR APPLICATION

Minimum 10°C	Optimum 20°C	Maximum 30°C
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#### NUTRITIENT LEVELS APPLIED (KG/HA) FROM ONE APPLICATION

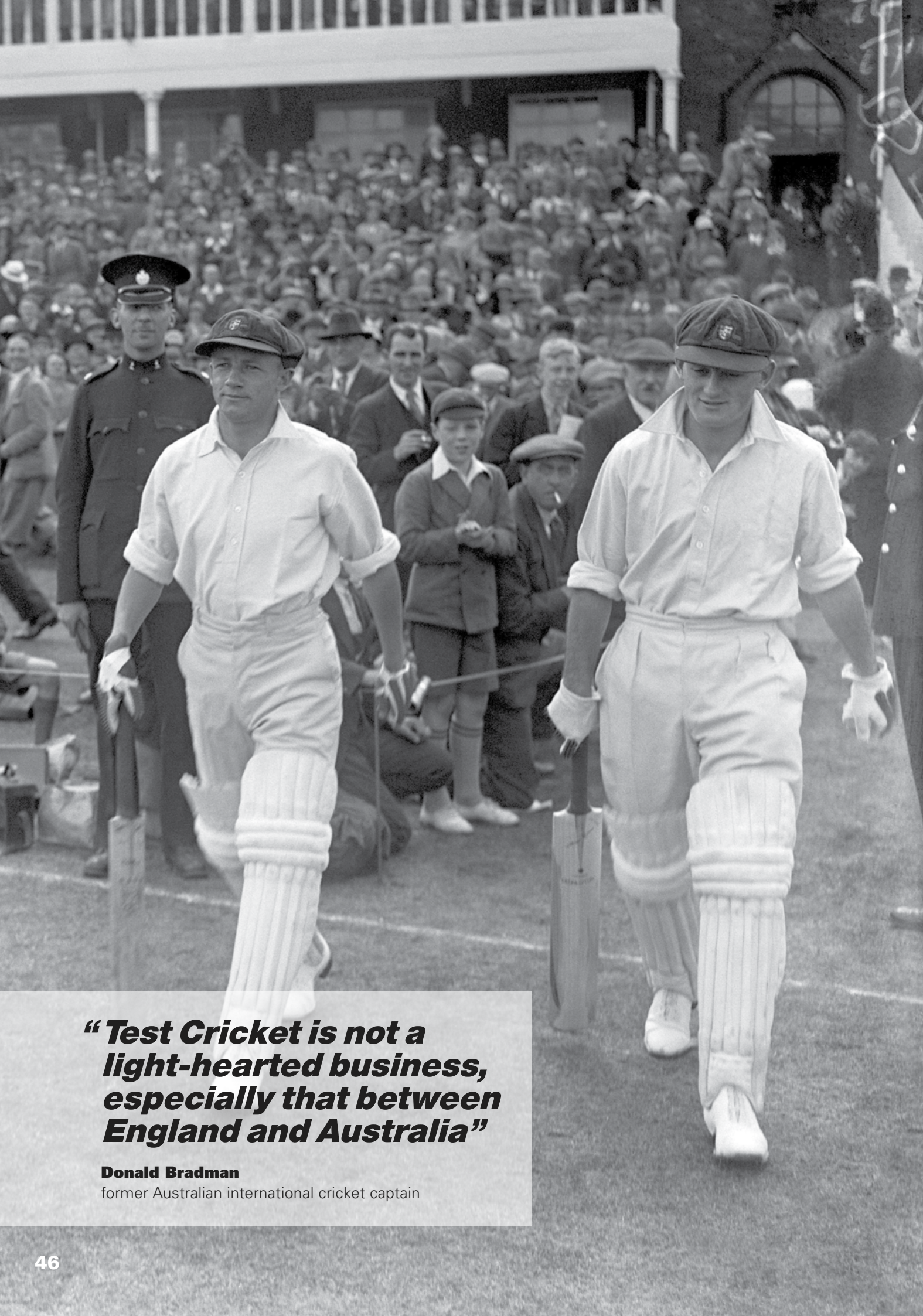
1 lt/ha			3 lt/ha		
N 0.0	P <sub>2</sub> O <sub>5</sub> 0.0	K <sub>2</sub> O 0.0	N 0.0	P <sub>2</sub> O <sub>5</sub> 0.0	K <sub>2</sub> O 0.0

#### PRODUCT CODE IG020105

#### CHARACTERISTICS VALUES

Approx. Longevity:	4 - 6 weeks
Cutting Height:	> 2mm
Nitrogen Source:	-
Guaranteed Analysis (w/v):	0.6% Ti 0.5% Fe, 3.0% Mn,
Additional Elements:	6.3% Zn, 0.3% B
Organic Matter:	-
Pack Size:	1 lt
Pack Coverage:	3,300 - 10,000 m <sup>2</sup>
Application Rate:	1 - 3 lt/ha
Water Rate:	300 - 600 lt/ha





## Seaweed Products

The TourBest C Spray Compass seaweed products comprise a unique range of molecular seaweed and carbohydrate extract products. These seaweed products are produced using *Ascophyllum nodosum*, grown at a renewable, sustainable and environmentally friendly source.

**The seaweed-based products in the range, utilise the natural benefits of the seaweed to stimulate root growth.** The seaweed helps the plant to produce thicker and longer roots with more root hairs leading to an increase in water and nutrient scavenging and the plant's ability to thrive in stress situations. We have extensively trialled our seaweed

products through independent research laboratories. Results of these trials are available on request.

The seaweed used in the TourBest products is extracted from the plant using the latest cold cell burst technology. This technology is designed to keep all of the marine molecules intact, allowing them to maintain their bioactive properties. TourBest C Spray Compass molecular seaweed extract is rich in alginic acid, mannitol, amino acids, minerals and other plant hormone-like molecules. The end product is concentrated and finely filtered to ensure maximum solubility and guarantee ease of application.

***“Test Cricket is not a light-hearted business, especially that between England and Australia”***

**Donald Bradman**  
former Australian international cricket captain

Product	Analysis	Approximate Rate	Longevity	Pack Coverage	Pack Size
C SPRAY COMPASS LIQUID SEAWEED	liquid seaweed	10 – 20 lt/ha	4 – 6 weeks	5,000 – 10,000 m <sup>2</sup>	10 lts
C SPRAY COMPASS BIO-COMPLETE	liquid seaweed + 3.3% Fe + wetting agent	10 – 20 lt/ha	4 – 6 weeks	5,000 – 10,000 m <sup>2</sup>	10 lts
C SPRAY COMPASS START	4-4-4 + molasses	10 – 20 lt/ha	4 – 6 weeks	5,000 – 10,000 m <sup>2</sup>	10 lts
C SPRAY COMPASS PRO-ACTIVE	1-11-5	10 – 20 lt/ha	4 – 6 weeks	5,000 – 10,000 m <sup>2</sup>	10 lts
CALSEA MN	12-0-0 + 18.8% CaO + 2.5% Mn	10 – 20 lt/ha	4 – 6 weeks	5,000 – 10,000 m <sup>2</sup>	10 lts
COMPASS COMPOSTED SEAWEED	2-2-1	35 – 75 g/m <sup>2</sup>	4 – 6 weeks	250 – 575 m <sup>2</sup>	20 kgs



# The Importance of Seaweed Source

Choosing the correct source of seaweed is vital to producing a high quality product. **Our seaweed is carefully selected from unpolluted, tidal seas.** The tidal seas offer a source which results in a finished product which is higher in beneficial compounds. Tidal flow submerges and exposes the seaweed plants twice every day, causing them high levels of stress. Naturally, the plants build up internal reserves of stress relieving compounds, which after processing remain in the product and can be applied to turf. Tidal seaweed also has increased nutrient content compared to other seaweeds grown in still/calm waters.

Seaweed Source Breakdown	C Spray Compass Liquid Seaweed	C Spray Compass Bio-Complete	C Spray Compass Pro-Active	C Spray Compass Compass Start
Dry Matter	24.1%	9.4%	7.95%	33.0%
Organic Matter	18.25%	7.75%	6.0%	21.8%
Specific Gravity	1.1	1.1	1.2	1.25
pH	6.8	3.0	5.5	5.5
Carbohydrates				
Mannitol	3.27%	0.52%	1.64%	1.66%
Alginic Acid	4.52%	1.65%	1.49%	2.26%
Amino Acids				
Alanine	0.10%	4.8 ppm	0.05%	0.0068%
Arginine	0.35%	6.0 ppm	0.17%	0.0226%
Aspartic Acid	0.24%	9.3 ppm	0.12%	0.0157%
Cystine	0.16%	1.5 ppm	0.08%	0.0101%
Glutamic Acid	0.63%	140 ppm	0.32%	0.0409%
Glycine	0.16%	45 ppm	0.08%	0.0101%
Trimethylglycine	2.00%	-	1.00%	-
Isoleucine	0.12%	9.0 ppm	0.06%	0.0077%
Histidine	0.04%	12 ppm	0.02%	0.0028%
Leucine	0.16%	24 ppm	0.08%	0.0101%
Lysine	0.14%	6.2 ppm	0.07%	0.0094%
Methionine	0.02%	1.6 ppm	0.01%	0.0010%
Phenylalanine	0.11%	3.8 ppm	0.06%	0.0070%
Proline	0.23%	42 ppm	0.12%	0.0150%
Serine	0.30%	1.2 ppm	0.15%	0.0149%
Threonine	0.30%	6.0 ppm	0.11%	0.0196%
Tyrosine	0.05%	2.6 ppm	0.12%	0.0034%
Valine	0.17%	0.42 ppm	0.09%	0.0110%
Total Amino Acids	5.21%	315.42 ppm	2.71%	0.2088%

# Mannitol & Alginic Acid

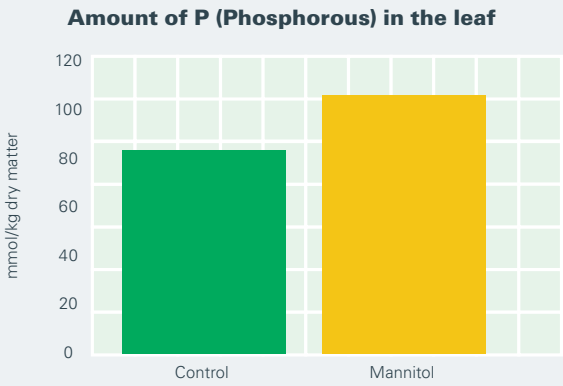
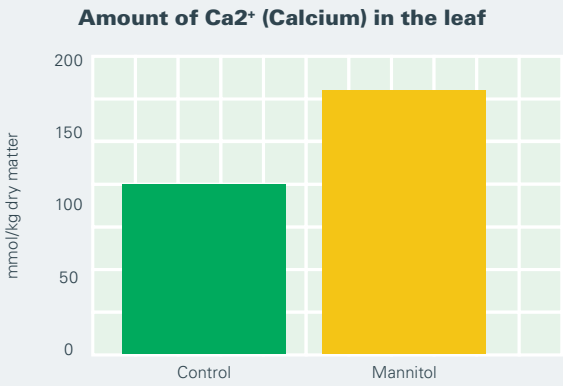
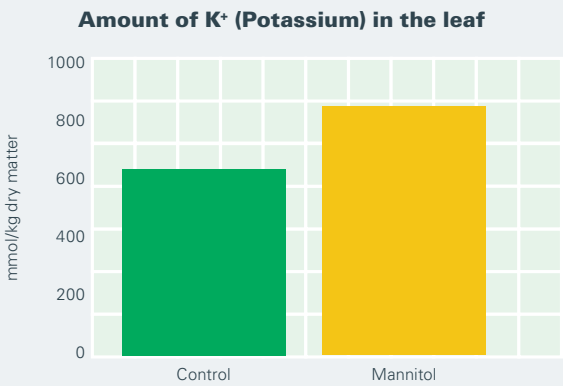
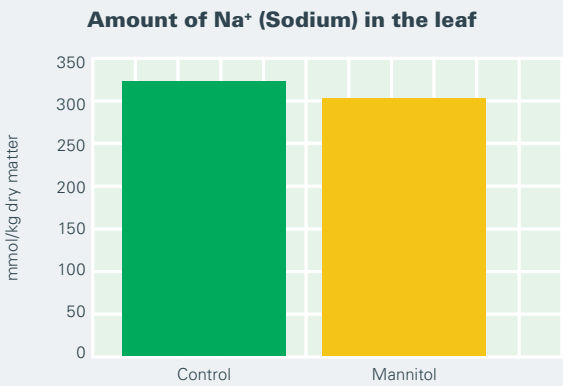
Alginic acid is an integral bioactive component of seaweed extract and this polysaccharide can enhance soil structures. Alginates are able to bond with ions in the soil similar to the way natural mucigels from soil organisms impact on aggregation of soil particles. This aggregation effect creates structures which allow aeration and water movement. This allows for root growth and increased uptake of nutrients and alginates are also proficient at retaining water and thus provides a conducive environment for increased root development and maximising healthy growth.

Foliar applications of seaweed extract is able to encourage increased root mass and development of increased surface area due to fibrous morphology promoted by the available auxins and cytokinins. Mannitol is a polyol with excellent antioxidant properties that protect cell functions particularly under conditions of abiotic stress. They achieve this by quenching free radicals or reactive oxygen species such as singlet oxygen, hydroxyl and hydrogen peroxide molecules. Mannitol also protect the important cell structures responsible for metabolic processes to maintain normal functionality.

## The Effect of Mannitol on Salt Stressed Plant Leaves

Trials were undertaken at a rate of application of 15 mM Mannitol, equivalent to the recommended application rate of TourBest C Spray Compass Liquid Seaweed.

Foliar applications of Mannitol significantly improved Relative Water Content (RWC) in the salt-stressed plants. Applications of Mannitol also reduced sodium in both the leaves and roots and increased available Phosphorous, Potassium and Calcium.







### C Spray Compass Liquid Seaweed

C Spray Compass Bio-Active is a highly concentrated, pure seaweed, liquid plant stimulant and soil conditioner. It is produced using a cold cell burst extraction process which prevents the loss of many beneficial nutrients during the manufacturing process. It will assist in revitalising tired looking turf as the high seaweed content promotes excellent wear and recovery characteristics.

✓ KEY FEATURES

- Ideal all-year round product for improving plant stress relief
- Increases root length and encourages root growth in new and established turf
- Longer roots help to scavenge deeper soil for water and nutrients
- Can be used as part of an organic fertiliser programme

CHARACTERISTICS		VALUES
Approx. Longevity:	Cutting Height:	4 - 6 weeks > 2mm
Nitrogen Source:	Guaranteed Analysis (w/v):	- -
Additional Elements:	Organic Matter:	- 18.3%
Pack Size:	Pack Coverage:	10 lts 5,000 - 10,000 m <sup>2</sup>
Application Rate:	Water Rate:	10 - 20 lt/ha 300 - 600 lt/ha

SUGGESTED SOIL TEMPERATURES FOR APPLICATION					
Minimum 4°C		Optimum 10°C		Maximum -°C	
NUTRIENT LEVELS APPLIED (KG/HA) FROM ONE APPLICATION					
10 lt/ha			20 lt/ha		
N 0.0	P <sub>2</sub> O <sub>5</sub> 0.0	K <sub>2</sub> O 0.0	N 0.0	P <sub>2</sub> O <sub>5</sub> 0.0	K <sub>2</sub> O 0.0
PRODUCT CODE TB020108					



### C Spray Compass Bio-Complete

C Spray Compass Bio-Complete contains 16.5% readily plant available seaweed to help promote root growth. The seaweed content promotes excellent wear and recovery characteristics. The 3.3% iron helps to harden turf and improve colour without encouraging new growth. The 1.6% wetting agent, based on the penetrant technology in TourFlo Infuse, reduces surface moisture which is important in cooler, wetter conditions.

✓ KEY FEATURES

- Formulated for cooler climates, hardens turf and reduces surface moisture
- A mix of seaweed, iron and wetting agent
- Improves colour without encouraging new growth
- Helps to minimise disease risk

CHARACTERISTICS		VALUES
Approx. Longevity:	Cutting Height:	4 - 6 weeks > 2mm
Nitrogen Source:	Guaranteed Analysis (w/v):	- 16.5% seaweed, 3.3% Fe, 1.6% wetting agent
Additional Elements:	Organic Matter:	- 7.8%
Pack Size:	Pack Coverage:	10 lts 5,000 - 10,000 m <sup>2</sup>
Application Rate:	Water Rate:	10 - 20 lt/ha 300 - 600 lt/ha

SUGGESTED SOIL TEMPERATURES FOR APPLICATION					
Minimum 4°C		Optimum 10°C		Maximum -°C	
NUTRITIENT LEVELS APPLIED (KG/HA) FROM ONE APPLICATION					
10 lt/ha			20 lt/ha		
N 0.0	P <sub>2</sub> O <sub>5</sub> 0.0	K <sub>2</sub> O 0.0	N 0.0	P <sub>2</sub> O <sub>5</sub> 0.0	K <sub>2</sub> O 0.0
PRODUCT CODE IG090103					



### C Spray Compass Pro-Active

C Spray Compass Pro-Active is a combined seaweed bio-stimulant and phosphite product. This combination is ideal to help alleviate plant stress along with stimulating root growth. The seaweed is produced using a cell burst extraction process which prevents the loss of many beneficial nutrients during the manufacturing process. Bioassay trials have shown a 92% increase in root length and a 23% increase in root density when using Compass Pro-Active at 20 lt/ha.

✓ KEY FEATURES

- Proven to increase root length and root density
- Applications will aid plant stress relief
- Improves all round plant health
- Helps improve disease resistance

CHARACTERISTICS		VALUES
Approx. Longevity:	Cutting Height:	4 - 6 weeks > 2mm
Nitrogen Source:	Guaranteed Analysis (w/v):	1.0% ammonium 1-11-5
Additional Elements:	Organic Matter:	- 6.0%
Pack Size:	Pack Coverage:	10 lts 5,000 - 10,000 m <sup>2</sup>
Application Rate:	Water Rate:	10 - 20 lt/ha 300 - 600 lt/ha

SUGGESTED SOIL TEMPERATURES FOR APPLICATION					
Minimum 8°C		Optimum 15°C		Maximum -°C	
NUTRITIENT LEVELS APPLIED (KG/HA) FROM ONE APPLICATION					
10 lt/ha			20 lt/ha		
N 0.1	P <sub>2</sub> O <sub>5</sub> 1.1	K <sub>2</sub> O 0.5	N 0.2	P <sub>2</sub> O <sub>5</sub> 2.2	K <sub>2</sub> O 1.0
PRODUCT CODE IG090104					



### CalSea Mn

CalSea Mn was developed to provide a readily available source of Calcium, clean organic matter in the form of Seaweed Extract, and Manganese. This foliar formulation has proven to be of exceptional assistance in the preparation of top quality playing surfaces.

SUGGESTED SOIL TEMPERATURES FOR APPLICATION					
Minimum 8°C		Optimum 15°C		Maximum -0°C	
NUTRIENT LEVELS APPLIED (KG/HA) FROM ONE APPLICATION					
10 lt/ha			20 lt/ha		
N 1.2	P <sub>2</sub> O <sub>5</sub> 0.0	K <sub>2</sub> O 0.0	N 2.4	P <sub>2</sub> O <sub>5</sub> 0.0	K <sub>2</sub> O 0.0
PRODUCT CODE TB020106					

✓ KEY FEATURES

- Manufactured from North Atlantic Seaweed Extract
- Added manganese to help with deficiencies
- Contains Nitrate Nitrogen which helps with growth

CHARACTERISTICS		VALUES
Approx. Longevity:	Cutting Height:	4 - 6 weeks > 2mm
Nitrogen Source:	Guaranteed Analysis (w/v):	- 12-0-0
Additional Elements:	Organic Matter:	18.8% CaO, 2.5% Mn -
Pack Size:	Pack Coverage:	10 lts 5,000 - 10,000 m <sup>2</sup>
Application Rate:	Water Rate:	10 - 20 lt/ha 300 - 600 lt/ha



### C Spray Compass Start

C Spray Compass Start is a blend of seaweed and molasses, ideal for use as an early season feed. It helps to boost microbial activity in the soil and encourage root development. The molasses provides an excellent food source of carbon, sugars and carbohydrates for soil microbes. It will also help increase resistance to stress and disease as well as strengthening roots to resist nematode damage.

SUGGESTED SOIL TEMPERATURES FOR APPLICATION					
Minimum 4°C		Optimum 15°C		Maximum 30°C	
NUTRITIENT LEVELS APPLIED (KG/HA) FROM ONE APPLICATION					
10 lt/ha			20 lt/ha		
N 0.4	P <sub>2</sub> O <sub>5</sub> 0.4	K <sub>2</sub> O 0.4	N 0.8	P <sub>2</sub> O <sub>5</sub> 0.8	K <sub>2</sub> O 0.8
PRODUCT CODE IG090106					

✓ KEY FEATURES

- Contains seaweed, molasses and wetting agent for an improved playing surface
- Greatly increases root mass and beneficial soil bacteria
- Unlocks locked-up nutrients in the soil into readily available forms
- Increases resistance to stress and disease

CHARACTERISTICS		VALUES
Approx. Longevity:	Cutting Height:	4 - 6 weeks > 2mm
Nitrogen Source:	Guaranteed Analysis (w/v):	1.1% ammonium, 2.9% urea 4-4-4 + molasses
Additional Elements:	Organic Matter:	Fe, Cu, Zn, Mn 21.8%
Pack Size:	Pack Coverage:	10 lts 5,000 - 10,000 m <sup>2</sup>
Application Rate:	Water Rate:	10 - 20 lt/ha 300 - 600 lt/ha



### Compass Composted Seaweed

Compass Composted Seaweed is a 100% organic derived product. It comprises of homogenous prills, leading to long lasting micronutrient and bio-stimulant activity. Used as a soil improver, it builds up the humus structure of the soil, stimulates microbial activity, and provides a range of micro nutrients as well as vitamins and alginates. A single application provides a slow-acting, long lasting plant food which is broken down over a period of months by the soil bacteria providing a health benefit to all sports turf.

SUGGESTED SOIL TEMPERATURES FOR APPLICATION					
Minimum 8°C		Optimum 12°C		Maximum -°C	
NUTRITIENT LEVELS APPLIED (KG/HA) FROM ONE APPLICATION					
35 g/m²			75 g/m²		
N 7.0	P <sub>2</sub> O <sub>5</sub> 7.0	K <sub>2</sub> O 3.5	N 15.0	P <sub>2</sub> O <sub>5</sub> 15.0	K <sub>2</sub> O 7.5
PRODUCT CODE IG090109					

✓ KEY FEATURES

- Fully organic, composted seaweed containing a wide range of micronutrients
- Improves the humus structure of the soil, helping moisture and nutrient retention
- Regular applications will help to rectify calcium imbalance
- Aids plant recovery after periods of high stress

CHARACTERISTICS		VALUES
Approx. Longevity:	SGN/Particle Size	4 - 6 weeks 150 - 250
Cutting Height:	Nitrogen Source:	> 10mm 2.0% organic
Guaranteed Analysis:	Additional Elements:	2-2-1 MgO, Mn, Zn, B, Cu
Organic Matter:	Pack Size:	60.2% 20 kgs
Pack Coverage:	Application Rate:	250 - 575 m <sup>2</sup> 35 - 70 g/m <sup>2</sup>





**“For those of you watching in black and white, Spurs are in the all-yellow strip”**

**John Motson**  
former legendary football commentator



# OneShot Products

The OneShot range is a unique collection of concentrated products packaged in easy-to-use, no-mess sachets. All of the OneShot products are now supplied in a liquid form with the same application rate for added simplicity.

Our OneShot products are packed in convenient, pre-measured sachets for direct addition to the spray

tank, preventing the need to measure out liquids from larger containers. The simple tear-top sachets ensure these products are simple to open and use.

**All of the OneShot products are fully tank mixable with each other, and can be used in any combination. They can be used to enhance virtually any tank mix, with a full range of options available.**

Product	Analysis	Approximate Rate	Longevity	Pack Coverage	Pack Size
COMPASS BIO-ACTIVE ONESHOT	Concentrated liquid seaweed	2-4 sachets/ha	4 – 6 weeks	5 – 10 ha	20 sachets
TURBINE HUMATE ONESHOT	17.2% humic acid 15.1% fulvic acid	2-4 sachets/ha	3 – 4 weeks	5 – 10 ha	20 sachets
TURBINE AMINO ONESHOT	15-5-15 17.3% humic acid 15.1% fulvic acid	2-4 sachets/ha	2 – 3 weeks	5 – 10 ha	20 sachets
HUMIK NPK ONESHOT	15-5-15 17.3% humic acid 15.1% fulvic acid	2-4 sachets/ha	2 – 4 weeks	5 – 10 ha	20 sachets
SOLAR PRO-ACTIVE ONESHOT	4-43-19	2-4 sachets/ha	2 – 3 weeks	5 – 10 ha	20 sachets
FUSION TRACER ONESHOT	1.8% MgO, 4.2% SO <sub>3</sub> , 0.15% Cu, 2.2% Fe, 1.13% Mn, 0.03% Mo, 0.42% Zn	2-4 sachets/ha	2 – 4 weeks	5 – 10 ha	20 sachets
MAGNUM FORTY-FOUR ONESHOT	Penetrant Wetting Agent	2-4 sachets/ha	2 – 4 weeks	5 – 10 ha	20 sachets



## The Range

Our OneShot products are packed in convenient, pre-measured sachets for direct addition to the spray tank, preventing the need to measure out liquids from larger containers. The simple tear-top sachets ensure these products are simple to open and use.



**Compass Bio-Active OneShot**

Concentrated seaweed extract



**Turbine Humate OneShot**

Humic and fulvic acids



**Turbine Amino OneShot**

Amino acid package



**Humik NPK OneShot**

NPK 15-5-15 with humic & fulvic acid



**Solar Pro-Active OneShot**

Phosphite foliar feed



**Fusion Tracer OneShot**

Trace element package



**Magnum Forty-Four OneShot**

Penetrant wetting agent

## Environmentally Friendly

These exceptionally environmentally-friendly products offer a significant reduction in packaging waste and transport costs. In turn they offer the turf manager a very low cost and effective method of adding penetrant wetting agent, bio-stimulants, macro or micro nutrients and other additives to any spray tank mix.

Due to the concentrated nature of the OneShot products, they are supplied in small sachets. The concentrated products offer significant weight savings over their traditional liquid equivalents. These smaller sachets offer a huge environmental benefits in haulage, reducing haulage weight and therefore emissions and cost savings.

The OneShot products also offer cost savings after they have been used. The sachets are much easier to dispose of than conventional drums and barrels, offering the turf manager cost savings on disposal costs.

**The environmentally friendly nature of these products does not end there. As they are highly tank mixable, they can be applied at the same time as other products, offering a reduction in emissions from sprayers, as well as a considerable saving on water use.**

## OneShot Tank Mixes

Tank mix compatibility is another major benefit of the OneShot range. All seven of the products are fully compatible in a spray tank mix. We have used this tank mix compatibility to offer a range of application programmes to help turf managers with a range of turf management issues.

## Root Development

Root development is an important part of turf management. Whilst the aesthetic appearance is often considered most important by players and spectators, it is root growth which provides the stability to the playing surface. Expanding and enhancing root growth allows the plant to absorb more water and nutrients, essential to top growth and the required aesthetic appearance.

## Nutrient Use Efficiency

Our programme to deliver increased nutrient use efficiency is based around boosting the availability of nutrients in the soil through the use of humic acids, effective water management and adding additional macro and micronutrients to boost the natural supply. The macro nutrients and humic acid in Humik NPK OneShot enhance nutrient availability for exchange in the rhizosphere they provide additional support in the soil for cation exchange capacity. The Addition of Fusion Tracer OneShot ensures that all of the micronutrients required by the turf are available to be used. As a lack of or excess water also has an impact on nutrient availability. Therefore the addition of Magnum Forty-Four OneShot assists in helping remove excess water from the rootzone, through increased water penetration.

## Anti-Stress

Our efficient anti-stress tank mix, includes seaweed, amino acids, humic acids and fulvic acids. This combination offers the turf grass plant all of the requirements to provide efficient recovery after periods of abiotic stress. This package helps to strengthen the plant and offer recovery from adverse climactic conditions, whilst also providing an invigorating and stimulating effect.



### Root Development

Use 2 – 4 sachets of each product in a tank mix, regularly throughout the growing season.

This mix can be added to applications of NPK fertilisers or foliar feeds for added effect and efficiency.



### Nutrient Use Efficiency

Use 2 – 4 sachets of each product in a tank mix, regularly throughout the growing season.

This mix can be added to applications of NPK fertilisers or foliar feeds for added effect and efficiency.



### Anti-Stress

Use 2 – 4 sachets of each product in a tank mix, regularly throughout the growing season.

This mix can be added to applications of NPK fertilisers or foliar feeds for added effect and efficiency.





### Compass Bio-Active OneShot

Compass Bio-Active OneShot is a plant stimulant and soil conditioner in the form of a pure seaweed liquid. It is manufactured from Ascophyllum nodosum seaweed using gentle evaporation technology to avoid excessive thermal degradation. The concentrated formulation is contained in sachets for large scale economic use, whilst also reducing transport costs and emissions.

#### ✓ KEY FEATURES

- Proven to significantly increase root length in the first two weeks of turf growth
- Applications will aid plant stress relief
- Can be used as part of an organic fertiliser programme
- Highly economical, super-concentrated sachets

SUGGESTED SOIL TEMPERATURES FOR APPLICATION					
Minimum 4°C		Optimum 10°C		Maximum -0°C	
NUTRITIENT LEVELS APPLIED (KG/HA) FROM ONE APPLICATION					
2 sachets/ha			4 sachets/ha		
N 0.0	P <sub>2</sub> O <sub>5</sub> 0.0	K <sub>2</sub> O 0.0	N 0.0	P <sub>2</sub> O <sub>5</sub> 0.0	K <sub>2</sub> O 0.0
PRODUCT CODE IG090110					

CHARACTERISTICS	VALUES
Approx. Longevity:	4 - 6 weeks
Cutting Height:	> 2mm
Nitrogen Source:	-
Guaranteed Analysis (w/v):	-
Additional Elements:	-
Organic Matter:	36.5%
Pack Size:	20 sachets
Pack Coverage:	5 - 10 ha
Application Rate:	2 - 4 sachets/ha
Water Rate:	300 - 600 lt/ha



### Turbine Humate OneShot

Turbine Humate OneShot contains both humic and fulvic acids. Humic acid chemically aids in the breakdown of, and directly reduces the plants uptake of toxins. Turbine Humate OneShot also increases the plants ability to cope with high levels of stress from drought, frost and excess moisture and heat. It also directly encourages microbial growth, both flora and fauna, which add to general soil fertility and health.

#### ✓ KEY FEATURES

- Increases the availability of phosphorous and potassium to the turf
- Improves chlorophyll content by improving the plants metabolism
- Helps promote microbial growth
- Assists in increasing surface water penetration & improves soil water holding capacity

SUGGESTED SOIL TEMPERATURES FOR APPLICATION					
Minimum 8°C		Optimum 15°C		Maximum -0°C	
NUTRIENT LEVELS APPLIED (KG/HA) FROM ONE APPLICATION					
2 sachets/ha			4 sachets/ha		
N 0.0	P <sub>2</sub> O <sub>5</sub> 0.0	K <sub>2</sub> O 0.0	N 0.0	P <sub>2</sub> O <sub>5</sub> 0.0	K <sub>2</sub> O 0.0
PRODUCT CODE IG080311					

CHARACTERISTICS	VALUES
Approx. Longevity:	3 - 4 weeks
Cutting Height:	> 2mm
Nitrogen Source:	-
Guaranteed Analysis (w/v):	17.2% humic acid, 15.1% fulvic acid
Additional Elements:	-
Organic Matter:	19.7%
Pack Size:	20 sachets
Pack Coverage:	5 - 10 ha
Application Rate:	2 - 4 sachets/ha
Water Rate:	300 - 600 lt/ha



### Turbine Amino OneShot

Turbine Amino OneShot is a plant bio-stimulant and stress relieving agent containing 35% of plant available free L-amino acids. L-amino acids are the building blocks of peptides, proteins and DNA. They are crucial to the health of any plant. When these are applied to plants suffering from environmental stress, they help improve turf health and quality. Turbine Amino OneShot also offers the plant relief from physiological, cold and frost, transplanting and water stress.

#### ✓ KEY FEATURES

- A food source for soil microbes, which product organic acids required by turf
- Helps turf recover from drought, frost, fungal diseases and pest attack
- Rapidly metabolised
- Relieves plant stress symptoms

SUGGESTED SOIL TEMPERATURES FOR APPLICATION					
Minimum 8°C		Optimum 15°C		Maximum -0°C	
NUTRITIENT LEVELS APPLIED (KG/HA) FROM ONE APPLICATION					
2 sachets/ha			4 sachets/ha		
N 0.003	P <sub>2</sub> O <sub>5</sub> 0.0	K <sub>2</sub> O 0.0	N 0.006	P <sub>2</sub> O <sub>5</sub> 0.0	K <sub>2</sub> O 0.0
PRODUCT CODE IG080312					

CHARACTERISTICS	VALUES
Approx. Longevity:	2 - 3 weeks
Cutting Height:	> 2mm
Nitrogen Source:	8.3% organic
Guaranteed Analysis (w/v):	8-0-0 + 35% L-amino acids
Additional Elements:	-
Organic Matter:	54.0%
Pack Size:	20 sachets
Pack Coverage:	5 - 10 ha
Application Rate:	2 - 4 sachets/ha
Water Rate:	300 - 600 lt/ha

### Humik NPK OneShot



Humik NPK OneShot is packed with both macro nutrients and humic and fulvic acid. The nutrient levels in Humik NPK OneShot will help keep a constant supply of Nitrogen, Phosphorous and Potassium to the plant when added to every tank mix. The humic and fulvic acids will help to encourage microbial growth and support all round soil fertility and health, without promoting excessive growth.

#### ✓ KEY FEATURES

- Humic acid helps to improve soil structure, including increasing C.E.C.
- Fulvic acid provides a natural chelating, improving uptake of nutrients
- Contains naturally occurring amino acids and can be used as part of an organic fertiliser program
- Highly economical, super-concentrated sachets with low application rates

SUGGESTED SOIL TEMPERATURES FOR APPLICATION					
Minimum 8°C		Optimum 15°C		Maximum -0°C	
NUTRITIENT LEVELS APPLIED (KG/HA) FROM ONE APPLICATION					
PRODUCT CODE IG030701					

CHARACTERISTICS	VALUES
Approx. Longevity:	2 - 4 weeks
Cutting Height:	> 2mm
Nitrogen Source:	15.0% ammonium
Guaranteed Analysis (w/v):	15-5-15, 17.3% humic acid, 15.1% fulvic acid
Additional Elements:	-
Organic Matter:	16.9%
Pack Size:	20 sachets
Pack Coverage:	5 - 10 ha
Application Rate:	2 - 4 sachets/ha
Water Rate:	300 - 600 lt/ha



### Solar Pro-Active OneShot

Solar Pro-Active OneShot is a concentrated foliar bio-stimulant, high in phosphite, designed to help dramatically reduce plant stress during the summer months. It is rapidly absorbed by the leaf and translocated to all parts of the plant, stimulating natural plant auxin production. It is fully systemic, and is available in our fast acting, stable, tank mixable formulation.

#### ✓ KEY FEATURES

- Significantly aids early root growth and establishment
- Promotes the plants natural resistance to disease and boost overall plant health
- Increases plants natural defence mechanism towards some pathogens
- Applications boost plant growth, particularly in low temperatures

SUGGESTED SOIL TEMPERATURES FOR APPLICATION					
Minimum 5°C		Optimum 18°C		Maximum -0°C	
NUTRIENT LEVELS APPLIED (KG/HA) FROM ONE APPLICATION					
PRODUCT CODE IG040121					

CHARACTERISTICS	VALUES
Approx. Longevity:	2 - 3 weeks
Cutting Height:	> 2mm
Nitrogen Source:	4.0% ammonium
Guaranteed Analysis (w/v):	4-43-19
Additional Elements:	-
Organic Matter:	-
Pack Size:	20 sachets
Pack Coverage:	5 - 10 ha
Application Rate:	2 - 4 sachets/ha
Water Rate:	300 - 600 lt/ha







### Fusion Tracer OneShot

Fusion Tracer OneShot is a liquid secondary and trace element package and has been developed to include a wide range of micronutrients. The balanced nutrient ratio ensures Fusion Tracer OneShot is perfectly suited to all turf types, particularly in circumstances where the availability of trace elements is minimal. The highly efficient foliar formulation allows for swift and efficient uptake by the plant leaf. It can be used in a tank mix with a wide range of TourBest products, including the rest of the OneShot range.

#### ✓ KEY FEATURES

- Particularly effective when used on sand-based greens where nutrient leaching is common
- Designed to work on soils with high pH levels
- Compatible with most approved pesticides
- Additives improve leaf penetration, uptake and nutrient absorption

#### SUGGESTED SOIL TEMPERATURES FOR APPLICATION

Minimum 8°C	Optimum 15°C	Maximum -0°C
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#### NUTRITIENT LEVELS APPLIED (KG/HA) FROM ONE APPLICATION

2 sachets/ha			4 sachets/ha		
N 0.0	P <sub>2</sub> O <sub>5</sub> 0.0	K <sub>2</sub> O 0.0	N 0.0	P <sub>2</sub> O <sub>5</sub> 0.0	K <sub>2</sub> O 0.0

#### PRODUCT CODE IG050215

#### CHARACTERISTICS VALUES

Approx. Longevity:	2 - 4 weeks
Cutting Height:	> 2mm
Nitrogen Source:	-
Guaranteed Analysis (w/v):	-
Additional Elements:	1.8% MgO, 4.2% SO <sub>3</sub> , 0.15% Cu, 2.2% Fe, 1.13% Mn, 0.03% Mo, 0.42% Zn
Organic Matter:	-
Pack Size:	20 sachets
Pack Coverage:	5 - 10 ha
Application Rate:	2 - 4 sachets/ha
Water Rate:	300 - 600 lt/ha



### Magnum Forty-Four OneShot

Magnum Forty-Four OneShot is a highly concentrated penetrant wetting agent designed to give economical yet superior turf wetting and water penetration on hydrophobic soils. The highly concentrated formula ensures significantly lower application rates than a conventional liquid. It can be used to aid the spread and penetration of foliar fertilisers. Magnum Forty-Four OneShot is contained in a sachet for large scale economic use and tank mixing.

#### ✓ KEY FEATURES

- Reduces excessive surface water, to create playing surfaces which can be used all year round
- Use prior to rainfall to aid irrigation and water movement
- Sachet provides an environmentally friendly and biodegradable, no mess solution
- Can be used in spray solutions to improve tank mix penetration

#### SUGGESTED SOIL TEMPERATURES FOR APPLICATION

Minimum 8°C	Optimum 15°C	Maximum -0°C
-------------	--------------	--------------

#### NUTRITIENT LEVELS APPLIED (KG/HA) FROM ONE APPLICATION

2 sachets/ha			4 sachets/ha		
N 0.0	P <sub>2</sub> O <sub>5</sub> 0.0	K <sub>2</sub> O 0.0	N 0.0	P <sub>2</sub> O <sub>5</sub> 0.0	K <sub>2</sub> O 0.0

#### PRODUCT CODE IF020108

#### CHARACTERISTICS VALUES

Approx. Longevity:	2 - 4 weeks
Cutting Height:	> 2mm
Nitrogen Source:	-
Guaranteed Analysis (w/v):	-
Additional Elements:	-
Organic Matter:	-
Pack Size:	20 sachets
Pack Coverage:	5 - 10 ha
Application Rate:	2 - 4 sachets/ha
Water Rate:	300 - 600 lt/ha



## Wetting Agents

Wetting agents play a vital role in turf management. For the benefit of turf managers, TourBest has developed TourFlo, a range of specialist wetting agents. The TourFlo wetting agents can work in a number of ways. TourFlo Balance, our triple-action wetting agent will spread water evenly over the turf surface, hold the correct levels of water in the root zone and help remove excess water through the use of added penetrants. TourFlo Clarity is a curative wetting agent, which is designed to be applied to soil to counter existing hydrophobic conditions. Penetrant wetting agents are formulated to open up the soil profile and

allow excessive water to drain away, technology used in TourFlo Infuse. The TourFlo range of wetting agents has been formulated to work in conjunction with one another to provide a complete solution for the turf manager. Our TourFlo wetting agents also take on a further role in water management, by helping to improve water conservation, particularly during periods of drought. **The wetting agents in our range help to maintain or improve turf health and quality, vital to the modern turf manager.**

Product	Analysis	Approximate Rate	Longevity	Pack Coverage	Pack Size
TOURFLO BALANCE	triple action	10 – 20 lt/ha	4 – 8 weeks	5,000 – 10,000 m <sup>2</sup>	10 lts
TOURFLO CLARITY	curative	10 – 20 lt/ha	4 – 8 weeks	5,000 – 10,000 m <sup>2</sup>	10 lts
TOURFLO INFUSE	penetrant	20 – 40 lt/ha	2 – 4 weeks	2,500 – 5,000 m <sup>2</sup>	10 lts
MAGNUM RECOIL	dew dispersant	10 lt/ha	10 – 14 days	10,000 m <sup>2</sup>	10 lts
MAGNUM GRANULAR	penetrant	10 g/m <sup>2</sup>	4 – 6 weeks	1,000 m <sup>2</sup>	10 kgs
MAGNUM APPLICATOR PELLETS	penetrant	1 pellet / 2,000-3,000 m <sup>2</sup>	2 – 4 weeks	10,000-15,000 m <sup>2</sup>	5 pellets
MAGNUM BLASTER PELLET	penetrant	1 pellet / min. 2,500 lt water	8 – 12 weeks	-	1 pellet



# Triple Action Wetting Agent > TourFlo Balance

Our most advanced formulation wetting agent is TourFlo Balance. TourFlo Balance is a blend of non-ionic surfactants and contains 100% active ingredients. With three active ingredients and three modes of action, **this 100% biodegradable product is ideal to maintain the correct balance of water in the soil profile.**

## The three surfactant ingredients are:

- Firstly, a glycol based ingredient which spreads across surface of turf
- Secondly, a block co-polymer which aids water penetration
- Finally, a reverse block co-polymer which helps balance water within the rootzone

## This triple action wetting agent combines three different surfactant technologies to provide:

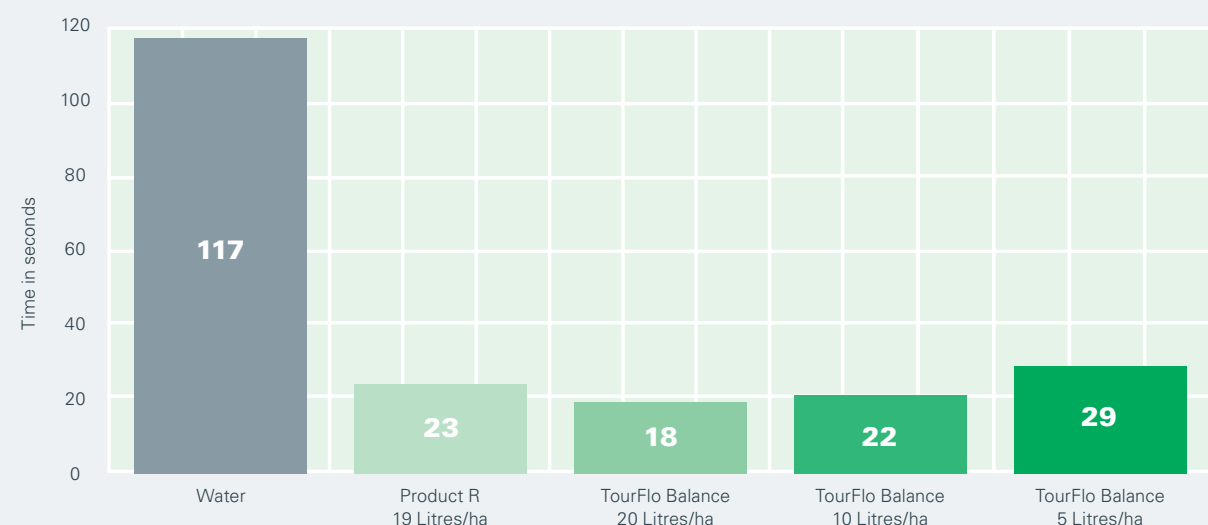
- Even spreading of water over the turf surface
- Efficient water penetration through advanced penetrant technologies
- Improved water holding capacity through the use of reverse block co-polymers



Tried and tested spreading agents ensure that the applied spray is evenly distributed across the surface of the turf and at the same time aids in penetration into the rootzone. Improvements in penetration are significant when compared to untreated soils and TourFlo Balance performs favourable to other products even at relatively low application rates.

By using wetting agents such as TourFlo Balance, the amount of irrigation or rain water required to bring rootzones back to acceptable moisture contents is greatly reduced. **Typically there is a saving in water of 30 – 40 %.**

Droplet Penetration Test - average of 20 results



# Penetrant Wetting Agent > TourFlo Infuse

Water management on managed turf grass is extremely important to ensure adequate water in the rhizosphere for nutrient uptake and overall metabolic function. Conversely ensuring rapid movement of excess water from surfaces is vital to maintain suitable playing surfaces. This is due to the fact that the balance of moisture plays a key role in reducing abiotic stress (environmental) and preventing conditions that encourage biotic stress (such as pests and diseases) leading to conditions detrimental to turf quality.

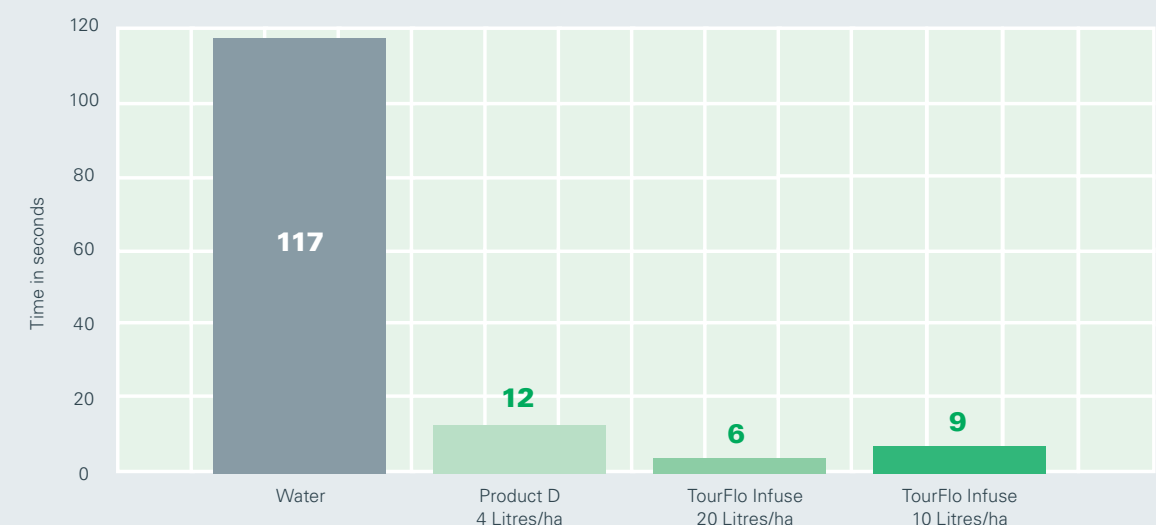
The historical build-up of certain surfactant molecules that are not biodegradable in soil profiles has been a concern therefore every effort has been made to prevent this with TourFlo Infuse. To that end it has been specifically designed and formulated as a biodegradable penetrant wetting agent with specific surfactant technology to open hydrophobic soil profiles and rapidly reduce excessive surface water.

Penetrant wetting agents, like TourFlo Infuse, help each water droplet penetrate the soil more easily, helping water to move through the surface layer quickly, and keep the top surface dry. On hydrophobic soils, water remains on the surface in large droplets which cannot penetrate into the soil profile. TourFlo Infuse helps to break down this large droplets, so that the water is spread more easily and thinly, allowing it to penetrate the soil profile and work its way through the rootzone.

The research and development behind surfactant technologies has now provided molecules that are able to reduce the effects of hydrophobic soils to increase wetting and provide rapid even movement of moisture through the profile to prevent puddling and dry patches, particularly important in periods of excess rainfall or drought. TourFlo Infuse is specifically designed to work as a penetrant wetting agent to encourage even quick water movement through hydrophobic soils.

Trials were undertaken at an independent laboratory to analyse the effectiveness of TourFlo Infuse against a competitor product. The “droplet penetration test” method was used to evaluate the products, which were compared to water. **TourFlo Infuse outperformed the competitor product, even at lower than the currently recommended rates of application.**

Droplet Penetration Test Comparing TourFlo Infuse with a competitor product







### TourFlo Balance

TourFlo Balance has been specially formulated to help prevent the development of hydrophobic soil conditions. It is a unique blend of environmentally friendly biodegradable turf wetting agent surfactants. On entering the root zone it attaches itself to soil particles and forms a film which not only helps water percolate evenly throughout the soil profile but will also help conserve water.

#### ✓ KEY FEATURES

- Apply before onset of visible dry patch or localised dry spots
- Ensures water penetration in areas difficult to wet
- Use in a targeted wetting agent programme with TourFlo Clarity

SUGGESTED SOIL TEMPERATURES FOR APPLICATION					
Minimum 8°C		Optimum 15°C		Maximum -0°C	
NUTRITIENT LEVELS APPLIED (KG/HA) FROM ONE APPLICATION					
10 lt/ha			20 lt/ha		
N 0.0	P <sub>2</sub> O <sub>5</sub> 0.0	K <sub>2</sub> O 0.0	N 0.0	P <sub>2</sub> O <sub>5</sub> 0.0	K <sub>2</sub> O 0.0
PRODUCT CODE TB050101					

CHARACTERISTICS	VALUES
Approx. Longevity:	4 - 8 weeks
Cutting Height:	> 2mm
Nitrogen Source:	-
Guaranteed Analysis:	-
Additional Elements:	-
Organic Matter:	-
Pack Size:	10 lts
Pack Coverage:	5,000 - 10,000 m <sup>2</sup>
Application Rate:	10 - 20 lt/ha
Water Rate:	300 - 600 lt/ha



### TourFlo Clarity

TourFlo Clarity is a new blend of ingredients designed to tackle the problems associated with localised dry spots and dry patch. TourFlo Clarity contains an organic acid designed to clean the sand particle and flush unwanted waxes, hydrocarbons, bicarbonate salts and minerals through the soil profile.

#### ✓ KEY FEATURES

- Curative wetting agent
- Opens soil to water and air penetration
- Flushes unwanted waxes, hydrocarbons, salts and minerals through the soil profile
- For use with TourFlo Balance as part of a targeted wetting agent programme

SUGGESTED SOIL TEMPERATURES FOR APPLICATION					
Minimum 8°C		Optimum 15°C		Maximum -°C	
NUTRITIENT LEVELS APPLIED (KG/HA) FROM ONE APPLICATION					
10 lt/ha			20 lt/ha		
N 0.0	P <sub>2</sub> O <sub>5</sub> 0.0	K <sub>2</sub> O 0.0	N 0.0	P <sub>2</sub> O <sub>5</sub> 0.0	K <sub>2</sub> O 0.0
PRODUCT CODE TB050105					

CHARACTERISTICS	VALUES
Approx. Longevity:	4 - 8 weeks
Cutting Height:	> 2mm
Nitrogen Source:	-
Guaranteed Analysis:	-
Additional Elements:	-
Organic Matter:	-
Pack Size:	10 lts
Pack Coverage:	5,000 - 10,000 m <sup>2</sup>
Application Rate:	10 - 20 lt/ha
Water Rate:	300 - 600 lt/ha



### TourFlo Infuse

TourFlo Infuse is an economic turf penetrant wetting agent ideally suited for opening the soil profile, maximising water penetration and dispersing excessive water away from the surface. Where excessive salts are a problem, it can also be used as part of flushing program. TourFlo Infuse can be used in an autumn/winter targeted program to aid in the dispersal of heavy rainfall.

#### ✓ KEY FEATURES

- Reduces excessive surface water
- Allows more efficient utilization of irrigation or rainfall
- For use on large turf areas such as fairways and outfields
- Can be used in spray solutions to improve tank mix penetration

SUGGESTED SOIL TEMPERATURES FOR APPLICATION					
Minimum 8°C		Optimum 15°C		Maximum -°C	
NUTRITIENT LEVELS APPLIED (KG/HA) FROM ONE APPLICATION					
20 lt/ha			40 lt/ha		
N 0.0	P <sub>2</sub> O <sub>5</sub> 0.0	K <sub>2</sub> O 0.0	N 0.0	P <sub>2</sub> O <sub>5</sub> 0.0	K <sub>2</sub> O 0.0
PRODUCT CODE TB050108					

CHARACTERISTICS	VALUES
Approx. Longevity:	2 - 4 weeks
Cutting Height:	> 2mm
Nitrogen Source:	-
Guaranteed Analysis:	-
Additional Elements:	-
Organic Matter:	-
Pack Size:	10 lts
Pack Coverage:	2,500 - 5,000 m <sup>2</sup>
Application Rate:	20 - 40 lt/ha
Water Rate:	300 - 600 lt/ha



### Magnum Recoil

Magnum Recoil is a dew dispersant. It contains a specific blend of adjuvants, spreading agents and oils which form a barrier on the leaf blade, helping to disperse dew. Applications will aid plant stress relief and reduce disease risk due to lower moisture levels on the leaf. The longevity of Magnum Recoil is dependent on the rate of grass growth and frequency of cutting.

#### ✓ KEY FEATURES

- Dew dispersant - applications prevent dew from forming on the turf surface
- Can be used as part of an organic fertiliser programme
- Applications will aid plant stress relief and reduce disease risk
- Prevents the need to manually remove dew from the turf surface daily, saving labour hours

SUGGESTED SOIL TEMPERATURES FOR APPLICATION					
Minimum 4°C		Optimum 10°C		Maximum -0°C	
NUTRITIENT LEVELS APPLIED (KG/HA) FROM ONE APPLICATION					
10 lt/ha			20 lt/ha		
N 0.0	P <sub>2</sub> O <sub>5</sub> 0.0	K <sub>2</sub> O 0.0	N 0.0	P <sub>2</sub> O <sub>5</sub> 0.0	K <sub>2</sub> O 0.0
PRODUCT CODE IF020110					

CHARACTERISTICS	VALUES
Approx. Longevity:	10 - 14 days
Cutting Height:	> 2mm
Nitrogen Source:	-
Guaranteed Analysis:	-
Additional Elements:	-
Organic Matter:	-
Pack Size:	10 lts
Pack Coverage:	10,000 m <sup>2</sup>
Application Rate:	10 lt/ha
Water Rate:	100 - 200 lt/ha



### Magnum Granular

Magnum Granular is an innovative spreadable wetting agent containing a blend of super surfactants for fast water penetration into localised dry spots and hydrophobic soil or thatch. Magnum Granular utilises Zeolite technology as a carrier. The micro-pores are infused with a new generation blend of super surfactants, giving preventative and curative activity. These surfactants help outperform conventional wetting agents by as much as 25 to 1. This product does not need to be watered in, but will only be activated with irrigation or rainfall.

#### ✓ KEY FEATURES

- Designed for use in all fine turf environments, particularly in areas only accessible with a spreader
- Provides preventative and curative activity against dry patch
- Helps reduce the amount of irrigation required
- Only activated by irrigation or rainfall

SUGGESTED SOIL TEMPERATURES FOR APPLICATION					
Minimum 8°C		Optimum 15°C		Maximum -0°C	
NUTRIENT LEVELS APPLIED (KG/HA) FROM ONE APPLICATION					
10 g/m²			20 g/m²		
N 0.0	P <sub>2</sub> O <sub>5</sub> 0.0	K <sub>2</sub> O 0.0	N 0.0	P <sub>2</sub> O <sub>5</sub> 0.0	K <sub>2</sub> O 0.0
PRODUCT CODE IF020150					

CHARACTERISTICS	VALUES
Approx. Longevity:	4 - 6 weeks
SGN:	100
Cutting Height:	> 2mm
Nitrogen Source:	-
Guaranteed Analysis:	-
Additional Elements:	-
Pack Size:	10 kgs
Pack Coverage:	1,000 m <sup>2</sup>
Application Rate:	10 g/m <sup>2</sup>
Water Rate:	-







Magnum Applicator Pellets

Magnum Applicator Pellets are designed to spot treat hydrophobic soils, hot spots and dry patch. They are applied through hand held applicators allowing them to be precisely targeted at localised problems, particularly dry patch. As Magnum Applicator Pellets are used in a targeted application, they help to reduce irrigation requirements.

✓ KEY FEATURES

- A highly concentrated formulation, ideal for syringing localised dry spots
- Flexible application rates for preventative or curative modes of action
- Environmentally friendly and biodegradable
- Can be used as a stand-alone treatment, or in conjunction with other TourBest wetting agents

CHARACTERISTICS	VALUES
Approx. Longevity:	2 - 4 weeks
Cutting Height:	> 2mm
Nitrogen Source:	-
Guaranteed Analysis:	-
Additional Elements:	-
Organic Matter:	-
Pack Size:	5 pellets
Pack Coverage:	10,000 - 15,000 m <sup>2</sup>
Application Rate:	1 pellet / 2,000 - 3,000 m <sup>2</sup>
Water Rate:	-

SUGGESTED SOIL TEMPERATURES FOR APPLICATION					
Minimum 8°C		Optimum 15°C		Maximum -0°C	
NUTRITIENT LEVELS APPLIED (KG/HA) FROM ONE APPLICATION					
-			-		
-	-	-	-	-	-
PRODUCT CODE IF020201					



Magnum Blaster Pellet

Magnum Blaster Pellets are designed for use in the storage tank or in irrigation systems and will improve water penetration into the turf. Magnum Blaster Pellet will ensure wetting agent is applied each time the irrigation is used, helping to prevent dry patch. The surfactant package contained in the Blaster Pellet gives the added advantage of lubricating sprinkler heads.

✓ KEY FEATURES

- Wetting agent applied with every irrigation to help prevent dry patch
- Environmentally friendly and biodegradable
- Easy to use, highly concentrated formulation
- Lubricates sprinkler heads at the same time as applying wetting agent to the turf

CHARACTERISTICS	VALUES
Approx. Longevity:	8 - 12 weeks
Cutting Height:	> 2mm
Nitrogen Source:	-
Guaranteed Analysis:	-
Additional Elements:	-
Organic Matter:	-
Pack Size:	1 pellet
Pack Coverage:	-
Application Rate:	1 pellet
Water Rate:	minimum 2,500 lt water

SUGGESTED SOIL TEMPERATURES FOR APPLICATION					
Minimum 4°C		Optimum 10°C		Maximum -0°C	
NUTRITIENT LEVELS APPLIED (KG/HA) FROM ONE APPLICATION					
-			-		
-	-	-	-	-	-
PRODUCT CODE IF020205					



Soil Conditioners

The TourBest soil conditioners have been developed to improve the condition of the rhizosphere, with the long term aim of producing a better quality growing environment for turfgrass. This improved growing environment helps to produce a better sward.

Our soil conditioners make use of some of the latest amino acid, humic acid and Calcium technologies, which help to prevent and reduce plant stresses, increase the cation exchange capacity and maximise the use of nutrients already available in the soil.

The predominantly sand based environment required for water management reduces the C.E.C. due to the lack of organic matter and clay micelles. Therefore in order to create a more sustainable environment, soil conditioners provide essential amendments to soil aggregates to maximise uptake of water and nutrients. **Applications of additional amino acids helps to reduce the pressure on the turf's existing pool of Amino Acids to maintain healthy recovery from periods of high turf stress.**

Product	Analysis	Approximate Rate	Longevity	Pack Coverage	Pack Size
AMINO-X	5-0-0 + amino acids + seaweed	10 lt/ha	3 – 4 weeks	10,000 m <sup>2</sup>	10 lts
HUMIC-X	14.0% humic acids	10 lt/ha	3 – 4 weeks	10,000 m <sup>2</sup>	10 lts
CALFLUSH	26.0% CaO + wetting agent	10 – 20 lt/ha	2 – 3 weeks	5,000 – 10,000 m <sup>2</sup>	10 lts
REPHLEX LS	1.74% CaO, 4.65% SO <sub>3</sub>	10 – 20 lt/ha	4 weeks	5,000 – 10,000 m <sup>2</sup>	10 lts
SAPPHIRE GREEN	15-0-0 + 82.5% SO <sub>3</sub>	20 – 40 lt/ha	2 – 3 weeks	2,500 – 5,000 m <sup>2</sup>	10 lts



## Amino Acids

Amino acids are organic compounds that contain amine (-NH<sub>2</sub>) and carboxyl (-COOH) functional groups. The key elements of an amino acid are carbon (C), hydrogen (H), oxygen (O), and nitrogen (N), although other elements are found in the side chains of certain amino acids.

It is believed that there are about 500 naturally occurring amino acids, only some of which are beneficial to turf grass. There is a wide range of 20 amino acids in the pool within plants. This varies throughout the plants lifecycle and changes depending on its development and physiological conditions.

The biologically active amino acids are the L (Levorotatory) α amino acids as opposed to the D (Dextrorotatory) amino acids which are not biologically active. Not all amino acids are readily plant available. It is the L- α amino acids that are plant available, and which are the focus of our products.

**Amino acids are the building blocks of peptides, proteins and DNA. They have a variety of functions and are crucial to the overall health of any plant. Getting the correct balance is vital in preventing stress which can have a significant impact of turf quality and aesthetics.**

Amino-X utilises a highly concentrated L- α amino acid package derived from sustainable plant based raw materials. The wide variety of amino acids cover very many biologically activities in plants as well as biosynthesis of proteins and are crucial in the resistance to biotic and abiotic stresses.

Throughout the plant life cycle the pool of amino acids varies in composition in a dynamic flux depending on the internal demands of the plant metabolism. By identifying the key amino acids such as proline which is particularly beneficial in drought conditions and applying this in order to reduce the requirement of the plant to utilise its own energy to fulfil the stress relief requirements. The use of Amino-X reduces the impact of stress on the plants own resources. Applications are particularly important during periods of stress, which can include drought, cold or frost and other physiological stresses.



## Humic Acid

Humic acid has many functions in the soil both chemical and physical. Chemically it aids in the breakdown of toxins and directly reduces the plants uptake of toxins. It also directly encourages microbial growth of both flora and fauna, which add to general soil fertility and health. Humic acid has also been found to assist in seed germination and plant growth as well as improving resistance to fungal attack.

**Humic acids cannot be used as a fix for turf under stress, but can be used to help prevent it. Regular applications of humic acid are the only way to ensure you reduce the risk of stress to the turf to the lowest level.**

Humic acid can also help to increase the cation exchange capacity (C.E.C.) of the soil. A high C.E.C. helps the soil to cling on to the nutrients, keeping them available to the turf. This is particularly important in climates where regular watering is required.

Humic-X, containing 14.0% humic acids is produced in a liquid formulation so that it can be added to any tank mix. The addition of humic acids to a tank mix helps to release nutrients bound within the rhizosphere, helping make them more available and accessible for uptake and can induce a “nutrient acquisition response” which can enhance the production of phytohormones. The high organic matter content provides fuel for microbes and general soil biota along with several forms of nitrogen to provide balanced steady release of nitrogen for strong healthy growth.

## Amino-X



Amino-X contains specified free amino acid in the plant available L-form acting as a stress relieving agent when applied to turf suffering from environmental stress. Amino-X also contains seaweed extract to help improve soil biological acidity and soil profile.

- ✓ KEY FEATURES
- Contains 10.0% seaweed and 10.0% amino acids
  - Helps turf recover from drought, fungal diseases and pest attack
  - Rapidly metabolised
  - Relieves plant stress symptoms

SUGGESTED SOIL TEMPERATURES FOR APPLICATION					
Minimum 8°C		Optimum 15°C		Maximum -0°C	
NUTRIENT LEVELS APPLIED (KG/HA) FROM ONE APPLICATION					
10 lt/ha			20 lt/ha		
N 0.5	P <sub>2</sub> O <sub>5</sub> 0.0	K <sub>2</sub> O 0.0	N 1.0	P <sub>2</sub> O <sub>5</sub> 0.0	K <sub>2</sub> O 0.0
PRODUCT CODE TB020101					

CHARACTERISTICS	VALUES
Approx. Longevity:	3 - 4 weeks
Cutting Height:	> 2mm
Nitrogen Source:	-
Guaranteed Analysis (w/v):	5-0-0
Additional Elements:	10.0% amino acids
Organic Matter:	-
Pack Size:	10 lts
Pack Coverage:	10,000 m <sup>2</sup>
Application Rate:	10 lt/ha
Water Rate:	300 lt/ha

## Humic-X



Humic-X is a solution of potassium humate with 14% bio-active humic acids. It is 100% water soluble and will act as a high quality plant growth stimulant and soil conditioner.

- ✓ KEY FEATURES
- Fulvic acid component further enhances activity
  - Regular use improves soil C.E.C.
  - Only slowly degraded by soil micro-organisms
  - Compatible with most fertilisers and micronutrients

SUGGESTED SOIL TEMPERATURES FOR APPLICATION					
Minimum 8°C		Optimum 15°C		Maximum -°C	
NUTRITIENT LEVELS APPLIED (KG/HA) FROM ONE APPLICATION					
10 lt/ha			20 lt/ha		
N 0.0	P <sub>2</sub> O <sub>5</sub> 0.0	K <sub>2</sub> O 0.0	N 0.0	P <sub>2</sub> O <sub>5</sub> 0.0	K <sub>2</sub> O 0.0
PRODUCT CODE TB020102					

CHARACTERISTICS	VALUES
Approx. Longevity:	3 - 4 weeks
Cutting Height:	> 2mm
Nitrogen Source:	-
Guaranteed Analysis (w/v):	14.0% humic acid
Additional Elements:	-
Organic Matter:	-
Pack Size:	10 lts
Pack Coverage:	10,000 m <sup>2</sup>
Application Rate:	10 lt/ha
Water Rate:	300 lt/ha

## CalFlush



CalFlush is a readily available source of calcium with added wetting agents which will immediately replace sodium within the root zone. For a priority flushing application use CalFlush in combination with Humic-X and TourFlo Infuse for fast and effective treatment.

- ✓ KEY FEATURES
- Fully organic, composted seaweed containing a wide range of micronutrients
  - Improves the humus structure of the soil, helping moisture and nutrient retention
  - Regular applications will help to rectify calcium imbalance
  - Aids plant recovery after periods of high stress

SUGGESTED SOIL TEMPERATURES FOR APPLICATION					
Minimum 8°C		Optimum 15°C		Maximum -°C	
NUTRITIENT LEVELS APPLIED (KG/HA) FROM ONE APPLICATION					
10 lt/ha			20 lt/ha		
N 0.0	P <sub>2</sub> O <sub>5</sub> 0.0	K <sub>2</sub> O 0.0	N 0.0	P <sub>2</sub> O <sub>5</sub> 0.0	K <sub>2</sub> O 0.0
PRODUCT CODE TB020104					

CHARACTERISTICS	VALUES
Approx. Longevity:	2 - 3 weeks
Cutting Height:	> 2mm
Nitrogen Source:	-
Guaranteed Analysis (w/v):	26.0% CaO
Additional Elements:	-
Organic Matter:	-
Pack Size:	10 lts
Pack Coverage:	5,000 m <sup>2</sup>
Application Rate:	20 lt/ha
Water Rate:	600 - 900 lt/ha



RePhlex LS



RePhlex LS is an organic acid derived from lignin, a natural and renewable raw material. RePhlex LS acidifies irrigation water, improves water penetration and helps free up bound nutrients in alkaline soils. It reacts with carbonates and bi-carbonates in the soil to give a number of agronomic benefits, including, improving soil structure, water penetration and gaseous exchange. It can also be used as an irrigation water treatment to reduce the pH and remove unwanted carbonates and bi-carbonates.

KEY FEATURES

- Helps to improve soil structure and water penetration
- Manufactured from a natural and renewable source
- Helps free up bound nutrients in alkaline soils
- Can be used as an irrigation water treatment to lower pH

SUGGESTED SOIL TEMPERATURES FOR APPLICATION					
Minimum 6°C		Optimum 15°C		Maximum -0°C	

NUTRITIENT LEVELS APPLIED (KG/HA) FROM ONE APPLICATION					
10 lt/ha			20 lt/ha		
N 0.0	P <sub>2</sub> O <sub>5</sub> 0.0	K <sub>2</sub> O 0.0	N 0.0	P <sub>2</sub> O <sub>5</sub> 0.0	K <sub>2</sub> O 0.0

PRODUCT CODE IF010101

CHARACTERISTICS	VALUES
Approx. Longevity:	4 weeks
Cutting Height:	> 2mm
Nitrogen Source:	-
Guaranteed Analysis (w/v):	1.74% CaO, 4.65% SO <sub>3</sub>
Additional Elements:	-
Organic Matter:	-
Pack Size:	10 lts
Pack Coverage:	5,000 - 10,000 m <sup>2</sup>
Application Rate:	10 - 20 lt/ha
Water Rate:	300 - 600 lt/ha

Sapphire Green



Sapphire Green is a combination of harmless fertiliser ingredients which helps to suppress worm casts with no detrimental impact to the worm. Sapphire Green contains no active chemicals, but still dramatically reduces worm casts. Laboratory trials have shown that earthworms will move away from treated areas, either deeper into the soil or away from the treated area entirely. Sapphire Green can be used all year round, but will have greatest effect in the early and late season whilst worms are closest to the surface of the soil.

KEY FEATURES

- Minimises earthworm activity on the soil surface
- No detrimental impact on worms
- Contains no active chemicals, only deterrents
- Highly effective in early and late season

**TOP TIP:**  
Spray when worms are near the surface during Spring and Autumn months  
Avoid spraying in drought or frozen ground conditions. DO NOT mix with products which acidify water

SUGGESTED SOIL TEMPERATURES FOR APPLICATION					
Minimum 5°C		Optimum 10°C		Maximum -0°C	

NUTRITIENT LEVELS APPLIED (KG/HA) FROM ONE APPLICATION					
20 lt/ha			40 lt/ha		
N 3.0	P <sub>2</sub> O <sub>5</sub> 0.0	K <sub>2</sub> O 0.0	N 6.0	P <sub>2</sub> O <sub>5</sub> 0.0	K <sub>2</sub> O 0.0

PRODUCT CODE IG070104

CHARACTERISTICS	VALUES
Approx. Longevity:	2 - 3 weeks
Cutting Height:	> 2mm
Nitrogen Source:	-
Guaranteed Analysis (w/v):	15-0-0 + SO <sub>3</sub>
Additional Elements:	82.5% SO <sub>3</sub>
Organic Matter:	-
Pack Size:	10 lts
Pack Coverage:	2,500 - 5,000 m <sup>2</sup>
Application Rate:	20 - 40 lt/ha
Water Rate:	400 - 800 lt/ha



Colourants & Spray Tank Additives

The range of colourants and spray tank additives offer the turf manager a complete range of products, designed to help optimising spraying efficiency and ensure ease of use of common difficult to spray chemicals.

The addition of spray tank additives to the TourBest range offers products to improve chemical penetration, provide a foaming and anti-foam option, as well as providing an environmentally friendly chemical tank cleaner.

**The TourBest spray pattern indicators help highlight overlapping sprays, missed areas, spray drift and blocked nozzles. These spray pattern indicators can be essential in ensuring the correct quantity of fertiliser or pesticide is applied.**

The range of colourants offered by TourBest includes a turf colourant, TourBest GreenSeeker, as well as a range of aerosol line marking paints. All of the colourants in our range will not damage turf, and are environmentally friendly. They have been developed to provide an aesthetically pleasing colour to turf when it is most needed.

Product	Analysis	Approximate Rate	Longevity	Pack Coverage	Pack Size
TOURBEST INDICATOR BLUE	spray dye indicator	10 – 20 lt/ha	24 – 48 hours	5,000 – 10,000 m <sup>2</sup>	10 lts
TOURBEST GREENSEEKER	turf colourant and spray dye indicator	10 – 20 lt/ha	Up to 12 weeks	5,000 – 10,000 m <sup>2</sup>	10 lts
OPTIK ANTI-FOAM	-	-	-	-	1 lts
OPTIK FOAM BOUT MARKER	-	-	-	-	2.5 lts
OPTIK TANK CLEANER	-	-	-	-	5 lts
OPTIK AEROSOL PAINTS	aerosol paints available in 7 colours	-	-	6 x 100 m line	6 x 750 mls





# The Effect of Spray Water pH

The performance of some agrochemicals and foliar applied fertilisers is impeded when mixed in water which is alkaline, hard, brackish, or contaminated with insoluble deposits.

Many Greenkeepers are forced to use sources of water which are either of high pH (over 7.0) or are 'hard', containing significant levels of Calcium, Magnesium or bicarbonate ions. Often where water is collected from chalk or limestone rocks the water has both these characteristics but their influence is distinct and they should be considered separately. In such conditions, some expensive agrochemicals and fertilisers are prone to rapid hydrolysis and precipitation resulting in poor performance due to loss of active ingredients particularly when multi-product tank mixing is required.

Pesticides can quickly degrade and this is measured by the time taken for 50% of the active to be broken down. It is called the 'half-life'.

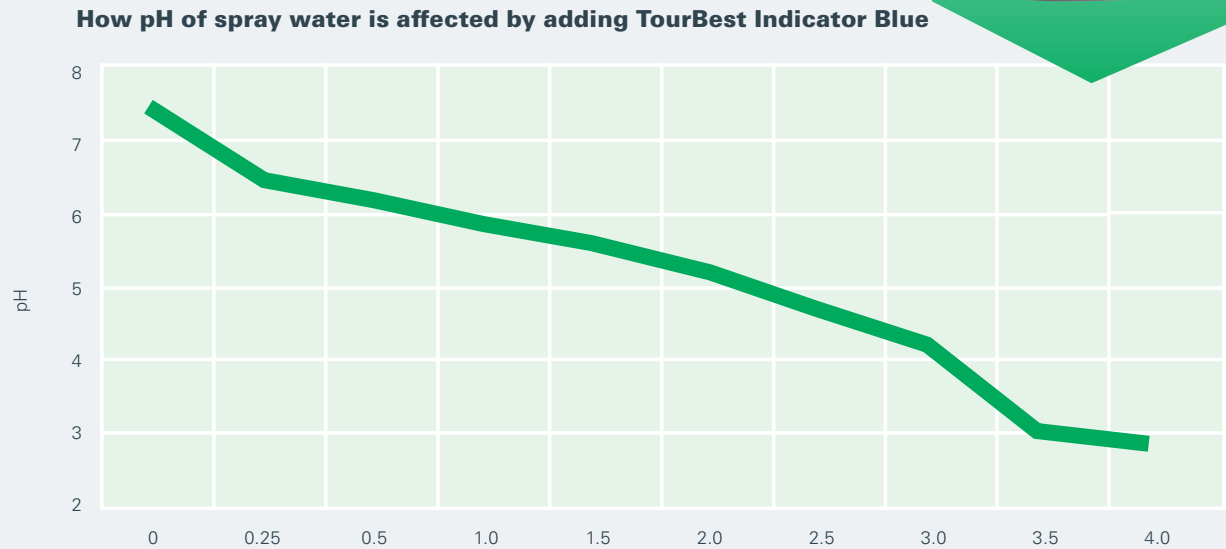
Not only can pH have an effect on the stability of products but it can also influence their uptake by the plant through the leaf. Most foliar nutrients are taken into the plant more rapidly using a spray water of lower pH.

# TourBest Indicator Blue

Unlike adjuvants, TourBest Indicator Blue does not increase the activity of the various agrochemicals with which it is mixed.

By treating the water, it ensures that any antagonistic constituents that may be present are removed or neutralised before the agrochemical is added to the spray tank. In this way it enables the agrochemical to reach its full potential activity.

As reducing the pH of the spray water can have an important impact on the effectiveness of fertilisers and pesticides, we add a buffering agent to our formulation to help reduce spray water pH. The amount of TourBest Indicator Blue required will depend on a number of factors including the starting pH, the hardness of the water and the desired finishing pH. It is not always possible for a greenkeeper to access such complete data so TourBest Indicator Blue has been formulated for a general application rate of 125-250 ml per 100 liters of spray water which will ensure adequate buffering of the majority of alkaline water sources.



## TourBest Indicator Blue



TourBest Indicator Blue is an enhanced spray pattern dye designed to highlight and help eliminate overlapping sprays, missed areas, spray drift or blocked nozzles. It may also be used for marking out temporary greens. Indicator Blue will remain visible for 24 – 48 hours, after which they will gradually fade depending on light intensity and/or rainfall.

### ✓ KEY FEATURES

- Reduces the pH of spraying water, protecting pesticides from losing activity
- Surfactants help spread the droplets on the leaf surface
- Complexing agent to reduce the staining effect of the dye
- Anti-drift component to reduce chemical trespass
- Water softening properties remove unwanted salts of Ca + Mg

SUGGESTED SOIL TEMPERATURES FOR APPLICATION		
Minimum 5°C	Optimum 15°C	Maximum -°C

**TOP TIP:**  
Adding 250ml of TourBest Indicator Blue to 100 litres of spraying water with a starting pH of 7.6 will reduce it to approx. pH 4.5

CHARACTERISTICS	VALUES
Approx. Longevity:	24 - 48 hours
Cutting Height:	> 2mm
Nitrogen Source:	-
Guaranteed Analysis:	-
Additional Elements:	-
Organic Matter:	-
Pack Size:	10 lts
Pack Coverage:	-
Application Rate:	250 ml
Water Rate:	100 lt

PRODUCT CODE TB090153

## TourBest GreenSeeker



TourBest GreenSeeker will give you excellent longevity and dark green coloration, without adding nutrients to the soil. Through the darker green color on the turf surface more UV light is absorbed meaning an increase in photosynthetic activity. In countries with a shorter playing season this can be very important. The added benefit is the aesthetic appearance of the turf is improved without high doses of Iron.

### ✓ KEY FEATURES

- Green turf colourant, which can be used as a spray dye indicator
- Flexible application rates to suit all turf types
- Contains no hazardous or harmful ingredients
- Uniform, consistent, dark green colour
- Helps turf to absorb UV light energy

SUGGESTED SOIL TEMPERATURES FOR APPLICATION		
Minimum 5°C	Optimum 15°C	Maximum -°C

**TOP TIP:**  
In hotter climates, where UV levels are high, the pigments within TourBest GreenSeeker can also protect the turf from UV damage whereby cell walls and vital plant biochemical process can be severely disrupted leading to plant stress and eventual death.

CHARACTERISTICS	VALUES
Approx. Longevity:	Up to 12 weeks
Cutting Height:	> 2mm
Nitrogen Source:	-
Guaranteed Analysis:	-
Additional Elements:	-
Organic Matter:	-
Pack Size:	10 lts
Pack Coverage:	5,000 - 10,000 m²
Application Rate:	10 - 20 lt/ha
Water Rate:	300 - 600 lt/ha

PRODUCT CODE TB090325





Optik Anti-Foam

Optik Anti-Foam is a silicone based anti-foam and de-foaming agent. Optik Anti-Foam should ideally be added to the spray tank before a pesticide or product which is known to foam. Alternatively, if foaming is already present in the tank, Optik Anti-Foam can be added with agitation for the foam to be quickly quelled.

KEY FEATURES

- Improves tank mixability of difficult to spray fertilisers and chemicals
- Helps to prevent the initial build-up of foam
- Also acts as a de-foamer when applied to the tank mix
- Contains 16% dimethylpolysiloxane

CHARACTERISTICS VALUES

Approx. Longevity:	-
Cutting Height:	-
Nitrogen Source:	-
Guaranteed Analysis:	-
Additional Elements:	-
Organic Matter:	-
Pack Size:	1 lt
Pack Coverage:	-
Application Rate:	15 - 75 ml
Water Rate:	200 lt

PRODUCT CODE IG060171



Optik Foam Bout Marker

Optik Foam Bout Marker produces a high quality, thick-bodied foam to help identify previously sprayed areas. The foam produced is deposited on the ground in large blobs rather than in narrow streaks. The size of foam blobs is dependent on the pressure and diameter of the boom and end drop hoses.

KEY FEATURES

- Creates a thick-bodied foam which disappears from the turf faster than a spray dye
- Helps identify where applications have been made without using a spray dye indicator
- Can be used with all water types
- Safe for use on all turf types

CHARACTERISTICS VALUES

Approx. Longevity:	-
Cutting Height:	-
Nitrogen Source:	-
Guaranteed Analysis:	-
Additional Elements:	-
Organic Matter:	-
Pack Size:	2.5 lts
Pack Coverage:	-
Application Rate:	1% of spray solution
Water Rate:	-

PRODUCT CODE IG060175



Optik Tank Cleaner

Optik Tank Cleaner is specially formulated to remove pesticide deposits and other debris, including oily substances, from tanks, hoses, booms, filters, screens and nozzles. Tank Cleaner was developed to handle difficult to clean agricultural chemicals, including sulfonylurea herbicides and sticky formulations.

KEY FEATURES

- Improves spray efficiency of the following application using the sprayer
- Removes deposits and other debris from tanks, hoses, filters, screens and nozzles
- Non-hazardous - will not corrode equipment
- Harmless to turf grass and the environment

CHARACTERISTICS VALUES

Approx. Longevity:	-
Cutting Height:	-
Nitrogen Source:	-
Guaranteed Analysis:	-
Additional Elements:	-
Organic Matter:	-
Pack Size:	5 lts
Pack Coverage:	-
Application Rate:	1 lt
Water Rate:	200 lt

PRODUCT CODE IG060177



Optik Aerosol Spray Paints

Optik Line Marker Aerosols are designed to mark out playing areas on turf and hard surfaces. They are available in seven colours. Optik Line Marker will be dry to the touch in 20 minutes and fully cured within 24 hours. One can of paint will provide up to 100 metres of line, 5 cm wide.



KEY FEATURES

- Available in seven colours: White, Yellow, Red, Blue, Black, Green and Orange
- Long lasting cans providing up to 100 metres of coverage
- Turf friendly
- Can be used on turf and hard surfaces, including concrete, wood, metal, tarmac and artificial turf

CHARACTERISTICS VALUES

Approx. Longevity:	-
Cutting Height:	-
Nitrogen Source:	-
Guaranteed Analysis:	-
Additional Elements:	-
Organic Matter:	-
Pack Size:	6 x 750 ml
Pack Coverage:	600 m
Application Rate:	-
Water Rate:	-

PRODUCT CODE IB090101





## The Importance of Testing

When choosing fertilisers and other products to provide the healthiest and most aesthetically pleasing turf, it can be challenging to choose the correct products from the vast quantity available. **We have put together guidance on our products, as comparative tools, which will help the turf manager make an informed decision on the products they're purchasing.** These reference charts and tables can be used to identify products to help with any deficiencies highlighted by soil testing results.

## Soil Analysis

By utilising a combination of the tests offered by TourBest, along with the analysis provided, **the modern turf manager will be able to accurately and measurably evaluate the success of cultural practises such as aeration and topdressing**, along with the effects of inputs such as like wetting agents, soil conditioners, pH buffers and nutritional products.



## Soil Testing

To fully understand the nutritional status of the soil, it is important that regular soil samples are taken and analysed. This will highlight the inherent fertility and also see if the current fertiliser practice is, over time, altering the base level of nutrients.

The other factor to take into account is soil pH – not only do different species tolerate different pH levels but nutrient availability is also linked to pH. It is important to take soil samples at the beginning of the growing season, before any nutrients are applied to the turf. This will allow for an accurate representation of the nutrient levels to be determined, allowing for an accurate nutrition plan to be developed for the forthcoming season.



All TourBest sales representatives are able to interpret soil analysis results and offer advice and suggestions in developing a nutrition plan for the upcoming season.

## Basic Soil Analysis

This basic analysis provides accurate results on the main limiting factors to quality turf. This includes the macro-nutrients, along with soil pH. From these basic results, several recommendations can be made to help turf managers improve their playing surfaces.

**Basic Soil Analysis tests for: pH, P, K, Mg, Ca and soil textural class**

## Comprehensive Soil Analysis

Comprising all of the tests from the basic analysis, along with testing for multiple micro-nutrients, sulphates and more, the comprehensive analysis provides accurate results on almost all limiting factors to quality turf. These results allow highly accurate and detailed recommendations to be made to help turf managers improve their playing surfaces.

**Comprehensive Soil Analysis tests for: pH, P, K, Mg, Ca and soil textural class, along with available Na, Cu, Zn, Mn, Fe, & Sulphate, soil conductivity, exchangeable cations with C.E.C. and basic organic matter levels**



Organic Matter Testing helps discover organic matter content of soils or rootzones and is tested by loss on ignition.

## Organic Matter Testing

Organic matter is important for soils, but too much in the wrong place can cause problems such as disease outbreak and too much water

## Water Testing

Our water test helps identify the main limiting factors of irrigation water. The depending on the test chosen, it can help to identify a range of nutrients present in irrigation water. In turn, recommendations can be made to help eradicate application problems as well as other turf issues arising from poorer quality irrigation water.

**Water Testing covers:** suitability for use in irrigation, pH, alkalinity and conductivity

**Additional testing can also cover:** bicarbonate, sodium, calcium and sulphate levels



Through our connections with a number of testing facilities in the UK and Europe, we are also able to offer further tests than those listed here. Examples of the tests we can offer also includes:

- ✓ Leaf N, P and K Analysis
- ✓ Particle Size Analysis (Textural Analysis)
- ✓ Pore Volume
- ✓ Saturated Hydraulic Conductivity
- ✓ Soil Salinity
- ✓ Surface Infiltration Rate
- ✓ Trace Element Analysis
- ✓ Visual or Microscopic Identification of Turfgrass Pests, Weeds or Diseases

retention. The organic matter test determines the correct balance for your sports turf area and can help to find a solution to any problems.



# Fertiliser Specifications

## Declared Nutrients (%)

Product	Total N	Organic N	Nitrate N	Ammonia N	Ureic N	Methylene Urea N	Coated Urea N	Total P <sub>2</sub> O <sub>5</sub>	Total P	Total K <sub>2</sub> O	Total K
C Spray Optimum Greens											
2-7-14	2.0			2.0				7.0	3.0	14.0	11.6
12-0-12	12.0				12.0					12.0	10.0
0-0-10										10.0	8.3
18-9-9	18.0			2.6	15.4			9.0	3.9	9.0	7.5
20-0-10	20.0		0.9		19.1					10.0	8.3
28-0-0	28.0		7.0	7.0	14.0						
5-2-10	5.0		1.9		3.1			2.0	0.9	10.0	8.3
EXTRA 20-0-10 + seaweed	20.0		0.9		19.1						
Foliar Liquids											
Foliar N	19.3			0.9	18.4			3.2	1.4	3.2	2.7
Foliar P	4.0			4.0				43.0	18.5	19.0	15.8
Foliar K										9.5	7.9
Foliar Fe											
Solar N	19.3			0.9	18.4			3.2	1.4	3.2	2.7
Solar K										8.7	7.2
Solar PK	4.2			4.2				43.2	18.6	19.2	15.9
Solar C	10.7			2.4	8.3			7.2	3.2	7.2	6
Solar Fe	3.0			3.0						5.0	4.1
Solar Ca+Mg	3.0		3.0								
Solar Pro-Active	4.2			4.2				43.2	18.6	19.2	15.9
Solar Nano Si											
Sportsfield Fertiliser											
Humik N25 25-0-0	25.0		0.3	15.7	9.0						
Quantum Sport 14-5-18	14.0	1.3		3.0	7.5	2.2		5.0	2.2	18.0	14.9
Impact CGF 15-5-15	15.0			3.3	8.7		3.0	5.0	2.2	15.0	12.5
Impact CGF 25-5-10	25.0			1.2	13.4		10.4	5.0	2.2	10.0	8.3
Impact CGF 16-5-26	16.0			1.3	8.3		6.4	5.0	2.2	26.0	21.6
Impact CGF 26-5-8	26.0			1.2	9.2		15.6	5.0	2.2	8.0	6.6
Impact CGF 28-8-8	28.0			1.9	1.7		26.1	8.0	3.4	8.0	6.6
Fine Turf Fertiliser											
ImpactPlus Accelerate 14-0-12	14.0	1.2		10.2	2.6					12.0	10.0
ImpactPlus Vitalize 16-5-16	16.0	1.4		3.0	11.6			5.0	2.2	16.0	13.3
ImpactPlus Summer Perk 14-0-4	14.0	1.7		3.0	9.3					4.0	3.3
ImpactPlus Emerge 10-20-10	10.0	2.0		8.0				20.0	8.6	10.0	8.3
Quantum Paspalum 5-3-18	5.0	1.7		0.9	2.4			3.0	1.3	18.0	14.9
ImpactPlus Perk 4-0-14 +10% Fe	4.0	0.6			3.4					14.0	11.6
ImpactPlus All Round 5-5-15	5.0	1.7		1.7	1.6			5.0	2.2	15.0	12.5
ImpactPlus SRF 19-0-19	19.0	0.7			6.3	12.0				19.0	15.8
ImpactPlus SRF 12-0-24	12.0	1.4			2.5	8.1				24.0	19.9
Impact Enhance 37% CaO											
TourBest Lawn Sand	3.0			3.0							
Soluble Fertiliser											
Fusion Soluble N	46.0				46.0						
Fusion Soluble NPK	32.0		2.9	1.9	27.0			5.0	2.2	10.0	8.3
Fusion Soluble High K	13.0		13.0							46.0	38.2
Fusion Soluble Fe											
TourPlex Microtrace											
TourPlex Mn											
TourPlex Zn											
TourPlex Cu											
TourPlex Fe											
Plant Health Enhancers											
Asset Titanium											
Compass											
Compass Bio-Complete											
Compass Start	4.0			1.1	2.9			3.8	1.7	3.8	3.1
Compass Pro-Active	1.0			1.0				11.0	4.7	5.0	4.2
CalSea Mn	12.0		12.0								
Compass Composted Seaweed	2.0	2.0						2.0	1.3	1.0	0.8
Soil Conditioners											
Amino-X	5.0			5.0							
CalFlush											
RePhlex LS											
Sapphire Green	15.0			15.0							

Note: ‘Declared Nutrients’ are those written on the bag/label. All liquids are expressed as w/v % analysis.

## Declared Nutrients (%)

Product	MgO	Mg	CaO	Ca	SO <sub>3</sub>	S	Fe	B	Cu	Mn	Zn	Mo	Ti	SiO <sub>2</sub>
C Spray Optimum Greens														
2-7-14														
12-0-12														
0-0-10														
18-9-9														
20-0-10														
28-0-0														
5-2-10														
EXTRA 20-0-10 + seaweed														
Foliar Liquids														
Foliar N							1.0							
Foliar P														
Foliar K														
Foliar Fe							7.0							
Solar N							1.0							
Solar K														
Solar PK														
Solar C							0.2							
Solar Fe					8.5	3.4	3.0							
Solar Ca+Mg	4.3	2.6	8.8	6.3										
Solar Pro-Active														
Solar Nano Si														0.6
Sportsfield Fertiliser														
Humik N25 25-0-0														
Quantum Sport 14-5-18	3.0	1.8	3.0	2.1	3.8	1.5								
Impact CGF 15-5-15			12.6	9.0										
Impact CGF 25-5-10	2.0	1.6												
Impact CGF 16-5-26	2.0	1.6												
Impact CGF 26-5-8	2.0	1.6												
Impact CGF 28-8-8														
Fine Turf Fertiliser														
ImpactPlus Accelerate 14-0-12					39.5	15.8	2.0							
ImpactPlus Vitalize 16-5-16	2.0	1.2			17.5	7.0								
ImpactPlus Summer Perk 14-0-4					11.5	4.6	6.0							
ImpactPlus Emerge 10-20-10					9.7	3.9	2.0							
Quantum Paspalum 5-3-18	2.0	1.2	13.2	9.5										
ImpactPlus Perk 4-0-14 +10% Fe					12.5	4.9	10.0			1.0				
ImpactPlus All Round 5-5-15	3.0	1.8			13.0	5.2	4.0							
ImpactPlus SRF 19-0-19					16.9	6.8	2.0							
ImpactPlus SRF 12-0-24					21.2	8.5								
Impact Enhance 37% CaO			27.0	19.3	36.0	14.4								
TourBest Lawn Sand							7.0							
Soluble Fertiliser														
Fusion Soluble N														
Fusion Soluble NPK														
Fusion Soluble High K														
Fusion Soluble Fe					28.6	11.5	20.0							
TourPlex Microtrace	6.6	4.0					4.0	0.5	1.5	4.0	1.5	0.1		
TourPlex Mn										20.0				
TourPlex Zn											20.0			
TourPlex Cu									20.0					
TourPlex Fe							20.0							
Plant Health Enhancers														
Asset Titanium							0.5	0.3		3.0	6.0		0.6	
Compass														
Compass Bio-Complete					4.3	1.7	3.3							
Compass Start														
Compass Pro-Active														
CalSea Mn			18.8	13.4						2.5				
Compass Composted Seaweed														
Soil Conditioners														
Amino-X														
CalFlush			26.0	18.6										
RePhlex LS			1.74	1.24	4.65	1.86								
Sapphire Green					82.5	33.0								



## Compatibility Chart

[illegible]





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