



Turf & Landscape

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Innovative solutions to help turf be stronger, healthier and perform at the highest level.

ICL Turf & Landscape dedicates itself to providing you with outstanding products and solutions for all your needs.

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As part of the ICL Group, we strive to
bring you the most technically advanced
products and solutions

ICL provide speciality fertilizers and nutrition programmes, turf seed, plant protection products and growing media to help you meet the demands of modern-day turf and landscape management.

We take great pride in the integrity and value of our dynamic world-class product portfolios and in the provision of dedicated technical support, available to you from the team at ICL.

Through our product technologies, our ongoing support of end-user education and through iTurf, our integrated turf management programme, we continue to advocate best practice in turf management and sound environmental stewardship.

With market-leading fertilizer brands – including SierrablenPlus, SierraformGT and Greenmaster – and a wealth of knowledge in both our Turf & Landscape technical teams and our network of distributors, we look forward to working with you and supporting you in all aspects of your work.



Driven by innovation

We continually invest in new products and have some of the most advanced Research and Development facilities in the world. We are also committed to sustainability, helping to maintain our environment in an efficient and responsible way.

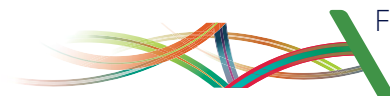
From raw materials through to finished product, we are dedicated to producing the finest range of fertilizer, plant protection and grass seed technologies, all backed up by first-class customer service. Turf managers at many of the world's finest sporting venues trust our technologies to help them produce high quality turf for sports and amenity use.



Inspired by nature

As well as fertilizer, plant protection products and grass seeds, ICL offers expertise and solutions to a range of turf problems, which we bring together in our unique programme of integrated turf practices and treatments.

Integrated turf management (ITM) focuses on using the best products in the most efficient and responsible way. ICL is championing ITM through iTurf in order to provide turf managers with an easy way of meeting their environmental responsibilities and complying with increasing rules and regulations regarding chemical application. It also helps them maintain healthy turf through long-term sustainable management.



For further information contact your ICL Technical Area Sales Manager or visit www.icl-sf.co.uk | www.icl-sf.ie

Sign up to... **Turf** REWARDS

Turf Rewards is a loyalty scheme for golf, sports and amenity turf managers

With Turf Rewards we offer the chance to earn points from purchases and convert them into a range of valuable agronomic or educational items.



turfrewards.com

Turf Rewards Benefits

- Receive points every time you purchase selected products
- Redeem points for agronomic or educational items
- Improve your turf surfaces through measurement and understanding
- Help your team to gain further qualifications
- Receive exclusive benefits including seminars, workshops and networking events
- Maximise your budget with every purchase

"We signed up to Turf Rewards because its a great way of getting something back on the money that we spend. I can arrange for my spreaders and sprayers to be checked and calibrated and use Turf Rewards vouchers to pay for it."

Keith Porter
Leigh Sports Village



Turf
REWARDS

PRODUCT
see pages 4-5

Watch out for this symbol on qualifying ICL products and benefit from better turf

"I've been using Turf Rewards since it was first launched, it makes my budget go a lot further. I'm looking at getting a Rapid Facer next as I've heard great things about it. I think Turf Rewards works for everyone at every level."

Peter Ashworth
Preston North End FC



Turf Rewards is as easy as

"We carry out weekly moisture and firmness tests at the training ground. The Enviromonitor vouchers enabled us to purchase a range of measurement tools. It's nice to get something back for the amount of commitment you show to a particular company."

John Ledwidge
Leicester FC



1



Sign up online

2



Purchase qualifying products and collect points

3

5
POINTS

10
POINTS

25
POINTS

Log the points you've collected and claim your reward

"We have greatly benefited from our involvement with Turf Rewards. The scheme has not only provided us with a range of quality products, but it has also enabled us to invest in educational schemes and courses for a number of our employees."

Mike Bush
St. Mellion GC/Crown Golf



turfrewards.com

Terms & Conditions apply.
See Turf Rewards brochure for full details.

Fertilizers

Turf managers across the globe trust ICL products to deliver outstanding results

Our comprehensive range of turf, amenity and landscape fertilizers provide the highest quality nutrition for turf that performs well, is healthy, resilient and looks good. Our unique, cutting edge, controlled release and slow release technologies deliver nutrients accurately and efficiently.



Fertilizers Contents

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ProTurf	p20	Vitalnova SeaMax	p34
Sportsmaster	p22	Sportsmaster Liquid Fe	p35
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Precision Nutrition

ICL fertilizer technologies deliver the optimum level of nutrient to support healthy turf

Conventional, controlled (coated) and slow-release technologies are all available to help you design your nutrition programmes to support the production of healthy and high quality turf.

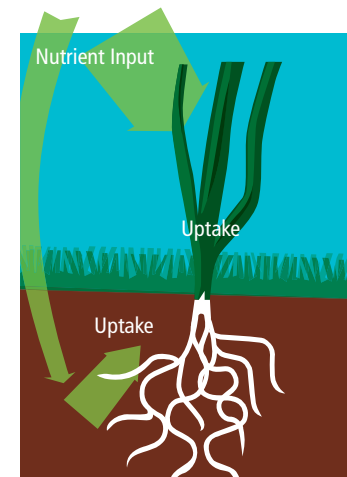
Extensive independent trial work has repeatedly confirmed the benefits of choosing premium formulations. If you are able to deliver nutrient in the correct form with an appropriate release pattern then you will improve the sward quality, increase root mass and radically reduce the level of disease activity.

Premium Conventional Sources

We only include premium quality ingredients in our formulations.

ICL only uses urea and ammoniacal nitrogen sources (primarily from ammonium sulphate) in the Greenmaster Pro-Lite range. We deliberately avoid the use of nitrate nitrogen, which can leach easily or increase the risk of damaging disease outbreaks. At ICL all our ingredients are considered to be crucial to achieving the best results.

Nutrient Input



The choice of nutrient source is essential for effective uptake and longevity.



Granulation



Coatings



Liquids

Fertilizer Technologies

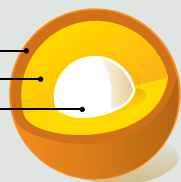
Our nutrition delivery technology is designed to help you maximise turf performance, minimise fertilizer inputs and eliminate waste.

Poly-S

Coated granule technology. Polymer and sulphur coating regulates nitrogen release to suit plant demand.

Poly-S technology:

Outer polymer coating
Inner sulphur coating
Urea nutrient core



Nitrogen granules are coated first with sulphur (a plant nutrient in itself) and then a unique polymer membrane, which is degradable. Once moisture permeates this outer polymer membrane and sulphur coating, nitrogen is released. Depending on the thickness of the coating, this release can last up to 6 months. Major increases in soil temperature and/or moisture do not create severe fluctuations in this release pattern, ensuring that Poly-S provides non-surge growth and a healthy, green turf even in warm, wet conditions. Because nutrient uptake is so efficient, the risk of leaching is reduced.

PACE

Resin coated technology. Resin coating of NPK and trace elements to provide tailored release patterns.

PACE technology:

Nutrient is combined within each granule.



PACE is a controlled release technology fertilizer containing more than one nutrient. Our unique vegetable-based resin membrane ensures the plant receives a steady dose of nitrogen, potassium and phosphorus. Depending on the thickness of the coating, nutrients are released over different lengths of time from 2 - 3 months up to 8 - 9 months. When applied, pressure starts to build up within the granule, forcing nutrients through the semi-permeable vegetable-based coating. The release is not influenced by soil moisture levels, pH or bacterial activity, so remains consistent over a wide range of environmental conditions.

MU₂

Extended nitrogen release in microfine granules. Slow release nitrogen that can be incorporated with a combination of quality nutrient sources.

MU₂ technology:

SierraformGT contains the correct and most effective combination of nutrients for the grass plant. Every granule has an identical composition. The result is even growth and colour all over the entire turf area.



MU₂ technology ensures the fertilizer distributes nutrients uniformly when applied, for even and slow growth across the whole grass area, creating a dense sward and a strong rooting system.

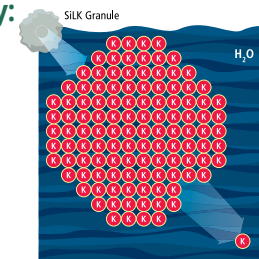
Fertilizers containing MU₂ technology are very safe to use. They have extremely low salt levels so the turf plant can't be burnt or damaged. The result is increased longevity of up to 8 weeks (depending on environmental conditions).

SiLK

Slow release potassium. A key ingredient of premium formulations to extend potassium and silica release and minimise leaching loss.

SiLK technology:

Slow release potassium in combination with silica has been shown in trials to improve drought tolerance.



Potassium is important for water regulation, protein synthesis, storage of starch and meristematic growth in plants as well as activating enzymes. With SiLK, a larger bank of potassium remains in the root zone available for plant uptake over a period of approximately 8 weeks.

Silica improves both the structure and strength of cells, helping to protect the plant from disease. Excessive soil moisture does not affect the release mechanism.

For further information contact your
ICL Technical Area Sales Manager
or visit www.icl-sf.co.uk | www.icl-sf.ie

Sierraform[®] GT

High performance long-lasting
micro-granular fertilizers

SierraformGT is a high performance range, designed for use on high quality, fine turf throughout the year. Each granule contains conventional and slow-release nutrient sources for consistent and sustained release patterns.

SierraformGT Benefits

- Slow release nitrogen and potassium for consistent and sustained results
- Even spread at ultra-low application rates
- Granules break down and disperse quickly
- Slow-release nitrogen and potassium benefits root development and stress tolerance

Product Performance*

Granule dispersal: 2 - 3 days
Turf response: 7 days
Longevity: 6 - 8 weeks

*depending on environmental factors

**Turf
REWARDS**
PRODUCT
see pages 4-5

Areas of Use

- ✓✓ Greens
- ✓ Tees
- ✓ Fairways
- ✓ Stadia Pitches



The Complete SierraformGT Range

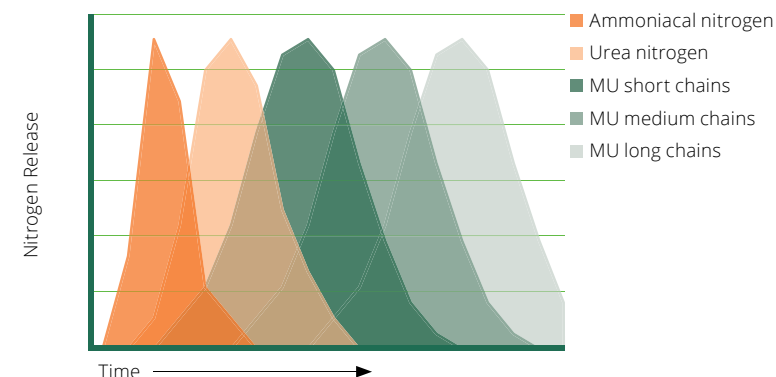
Product Name Oxide Analysis (Elemental Analysis)	Product Notes	Nutrient Breakdown			
		Nitrogen			
		Total N	N-NO ₃	N-NH ₄	
Spring Start 16-0-16 +Fe +Mn (16-0-13.3 +Fe +Mn)	Quick reaction in cooler conditions, ideal for spring application.	16		7.9	
Momentum 22-5-11 +2MgO +TE (22-2.2-9.1 +1.2Mg +TE)	For use in spring and summer, with magnesium and TE for turf colour.	22		3	
All Season 18-6-18 +2MgO +TE (18-2.6-14.9 +1.2Mg +TE)	Ideal for use after aeration to stimulate root growth.	18		1.3	
NK 19-0-19 +2MgO +TE (19-0-15.8 +1.2Mg +TE)	Balanced NK fertilizer for use from spring to autumn.	19			
Anti-Stress 15-0-26 +Fe (15-0-21.5 +Fe)	High potassium content to harden turf in stressful summer or autumn conditions.	15			
K-STEP 6-0-27 +2MgO +TE (6-0-22.4 +1.2Mg +TE)	High potassium content to harden turf in autumn and winter.	6		0.7	
Pre-Seeder 18-22-5 (18-9.6-4.1)	Ideal for use during over-seeding period or when laying turf.	18		6.4	



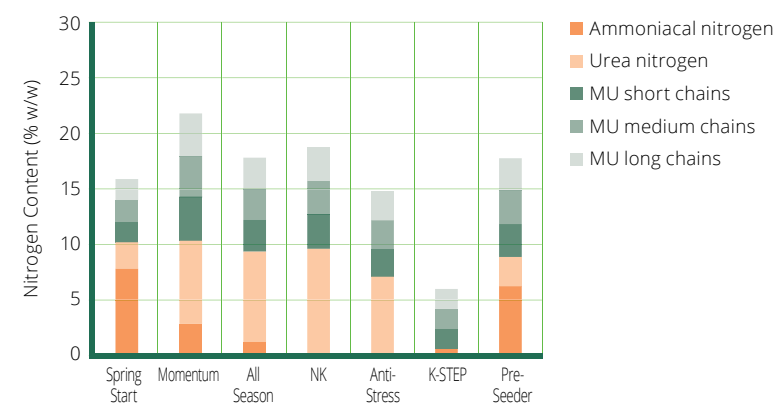
Nutrient Breakdown					Bag Sizes (kg)	Application Rate (g/m²)	Nutrient Levels Applied (kg/ha)			Bag Coverage per m²	Recommended Period of Use													
Nitrogen			Total P	Total K			MgO	N	P		K	20kg Bag	J	F	M	A	M	J	J	A	S	O	N	D
	N-Urea	N-MU₂																						
	2.4	5.7		16		20	20 25 30	32.0 40.0 48.0	0.0 0.0 0.0	32.0 40.0 48.0	1,000 800 667													
	7.5	11.5	5	11	2	20	20 25 30	44.0 55.0 66.0	10.0 13.0 15.0	22.0 28.0 33.0	1,000 800 667													
	8.2	8.5	6	18	2	20	20 25 30	36.0 45.0 54.0	12.0 15.0 18.0	36.0 45.0 54.0	1,000 800 667													
	9.9	9.1		19	2	20	20 25 30	38.0 48.0 57.0	0.0 0.0 0.0	38.0 48.0 57.0	1,000 800 667													
	7.2	7.8		26		20	20 25 30	30.0 38.0 45.0	0.0 0.0 0.0	52.0 65.0 78.0	1,000 800 667													
		5.3		27	2	20	20 25 30	12.0 15.0 18.0	0.0 0.0 0.0	54.0 68.0 81.0	1,000 800 667													
	2.7	8.9	22	5		20	20 25 30	36.0 45.0 54.0	44.0 55.0 66.0	10.0 12.5 15.0	1,000 800 667													

The Delivery of Nitrogen for Consistent Release

Nitrogen Release in SierraformGT



Nitrogen Content in SierraformGT



Spreader Settings

Rate (g/m ²)	Rotary Spreader (SR-2000 or AccuPro 2000)			
	Cone Setting	Spread Width	Single Pass @ Full Rate	Double Pass @ Half Rate
20	6	3.7m	L	I ½
25	6	3.7m	M	J ½
30	6	3.7m	M ½	K

For further information contact your ICL Technical Area Sales Manager or visit www.icl-sf.co.uk | www.icl-sf.ie

Greenmaster® Pro-Lite®

Outstanding micro-granular fertilizer range
for high quality, fine turf nutrition

A conventional release, finely granulated homogeneous fertilizer for use on fine turf areas. The range contains various analyses designed to optimise turf health throughout the year.

Greenmaster Pro-Lite Benefits

- The micro-granule formulation allows consistent distribution, even at low rates of application
- High quality ingredients provide reliable release patterns
- Contains zeolite to improve performance and longevity
- Greenmaster Autumn provides moss control

Product Performance*

Granule dispersal: 3 - 4 days
Turf response: within 7 days
Longevity: 6 weeks

*depending on environmental factors

**Turf
REWARDS**
PRODUCT
see pages 4-5

Areas of Use

- ✓✓ Greens
- ✓ Tees
- ✓ Fairways
- ✓ Stadia Pitches



The Complete Greenmaster Pro-Lite Range

Product Name Oxide Analysis (Elemental Analysis)	Product Notes	Nitrogen	
		Total N	N-NH ₄
Turf Tonic 8-0-0 +3MgO +Fe (8-0-0 +1.8Mg +Fe)	Works well at low temperatures to boost early season growth.	8	4.5
Invigorator 4-0-8 +2MgO +4Fe (4-0-6.6 +1.2Mg +4Fe)	Low nitrogen, high potassium with iron to help harden turf in spring and autumn.	4	4
Invigorator Plus 4-0-14 +2MgO +8Fe (4-0-11 +1.2Mg +8Fe)	Higher potassium and iron formulation to sustain turf health in autumn and spring with improved colour response.	4	4
Cold Start 11-5-5 +8Fe (11-2.2-4.1 +8Fe)	Readily available nitrogen, phosphorus and potassium to kick-start spring recovery growth.	11	5.6
Spring & Summer 14-5-10 +2MgO (14-2.2-8.3 +1.2Mg)	Maintains strong growth levels and enhances turf colour during the spring and summer.	14	5.1
NK 12-0-12 +3MgO +2Fe (12-0-10.0 +1.8Mg +2Fe)	Ideal for use from spring through to late summer to maintain potassium levels.	12	4.1
Double K 7-0-14 +4Fe (7-0-11.6 +4Fe)	Low nitrogen high potassium for turf strengthening throughout the year.	7	2.8
Autumn 6-5-10 +6Fe (6-2.2-8.3 +6Fe) MAPP No 16762 / PCS No 05004	NPK analysis with high iron to balance turf health, harden the sward and provide moss control.	6	4.3
Autumn Mg 6-5-11 +3MgO +0.5Fe (6-2.2-9.1 +1.8Mg +0.5Fe)	Low iron NPK analysis formulated with magnesium to enhance turf health and colour.	6	1.8
Pro-Iron 0-0-0 +7%Fe +3MgO +seaweed (0-0-0 +7%Fe +1.8Mg + seaweed)	Provides quick green-up with minimal growth, especially useful in autumn and winter.		



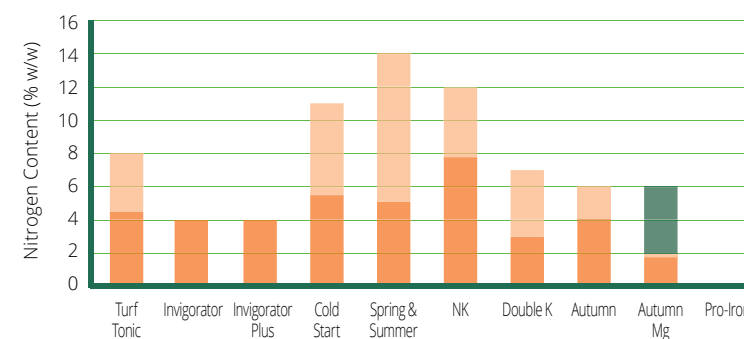
Nutrient Breakdown						Bag Sizes (kg)	Application Rate (g/m²)	Nutrient Levels Applied (kg/ha)			Bag Coverage per m²	Recommended Period of Use												
Nitrogen		Total P	Total K	MgO	Fe			N	P	K		25kg Bag	J	F	M	A	M	J	J	A	S	O	N	D
N-Urea	N-MU₂																							
	3.5			3.3	3	25	30 35	24.0 28.0	0.0 0.0	0.0 0.0	833 714													
			8	3.3	4	25	30 35	12.0 14.0	0.0 0.0	24.0 28.0	833 714													
			14		8	25	30 35	12.0 14.0	0.0 0.0	42.0 49.0	833 714													
	5.4	5	5		8	25	30 35	33.0 38.5	15.0 17.5	15.0 17.5	833 714													
	8.9	5	10	2		25	30 35	42.0 49.0	15.0 17.5	30.0 35.0	833 714													
	7.9		12	3	2	25	30 35	36.0 42.0	0.0 0.0	36.0 42.0	833 714													
	4.2		14		4	25	30 35	21.0 24.5	0.0 0.0	42.0 49.0	833 714													
	1.7	5	10		6	25	30 35	18.0 21.0	15.0 17.5	30.0 35.0	833 714													
	0.2	4.0	5	11	3	0.5	25	30 35	18.0 21.0	15.0 17.5	33.0 38.5	833 714												
				3	7	25	30 35	0.0 0.0	0.0 0.0	0.0 0.0	833 714													

Spreader Settings

Rate (g/m ²)	Rotary Spreader (AccuPro 2000, SR-2000, SR-1, R8-A)			
	Cone Setting	Spread Width	Single Pass @ Full Rate	Double Pass @ Half Rate
30	6	3.7m	M	J ½
35	6	3.7m	N	K
Rate (g/m ²)	Drop Spreader (SS-1, SS-2)			
	Spread Width	Single Pass @ Full Rate	Double Pass @ Half Rate	
30	0.91m	5 ¼	4	
35	0.91m	5 ½	4 ¼	

Nitrogen Content

- Ammoniacal nitrogen
- Urea nitrogen
- MU nitrogen



For further information contact your ICL Technical Area Sales Manager or visit www.icl-sf.co.uk | www.icl-sf.ie

STEP[®] Hi-Mag

Unique granular trace
element supplement

Contains all the micronutrients required for healthy turf growth. Especially useful for preventing deficiencies in sand-based constructions.

STEP Hi-Mag Benefits

- Helps prevent nutrient deficiencies in sand-based constructions
- Contains a high proportion of magnesium to enhance turf health and colour
- Proven benefits against the development of Take-all Patch
- Extremely low rate of application required

Product Performance*

Granule dispersal: 4 - 5 days
Turf response: 7 days
Longevity: 6 weeks

*depending on environmental factors

Areas of Use

- ✓✓ Greens
- ✓✓ Tees
- ✓ Fairways
- ✓✓ Stadia Pitches



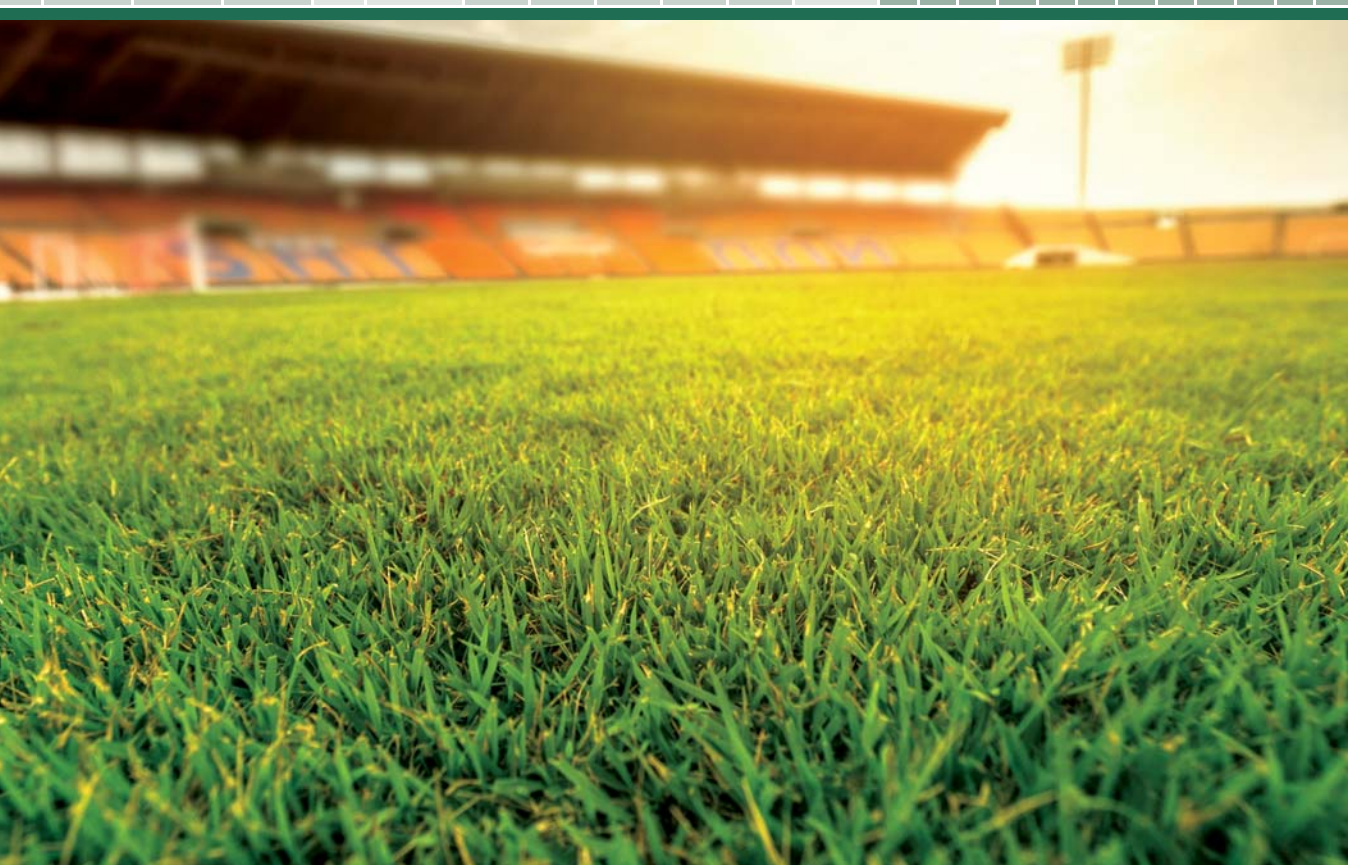
STEP Hi-Mag

Product Name	Product Notes	Nutrient Breakdown		
		MgO	Cu	
STEP Hi-Mag	Prevents trace element deficiencies and contains magnesium for turf health and colour.	19.8	0.50	





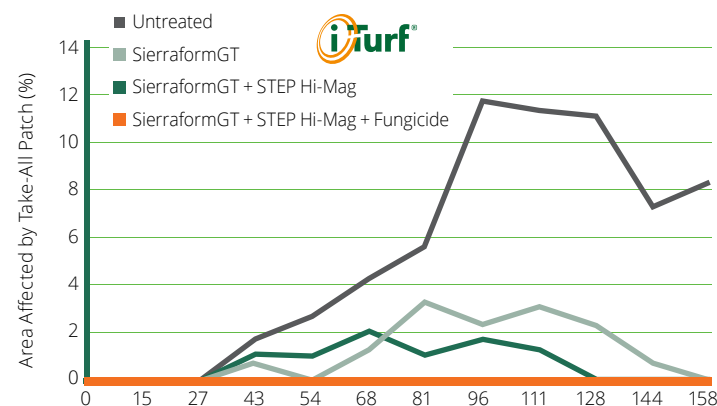
Nutrient Breakdown			Bag Sizes (kg)	Application Rate (g/m ²)	Nutrient Levels Applied (kg/ha)					20kg Bag	Recommended Period of Use											
Fe	Mn	Zn			MgO	Cu	Fe	Mn	Zn		J	F	M	A	M	J	J	A	S	O	N	D
8	3	1	20	7 11	13.9 21.9	0.4 0.6	5.6 8.8	2.1 3.3	0.7 1.1	2,857 1,818												



Spreader Settings

Rate (g/m ²)	Rotary Spreader (AccuPro 2000, SR-2000, SR-1, R8-A)			
	Cone Setting	Spread Width	Single Pass @ Full Rate	Double Pass @ Half Rate
5	7	4.3m	H	G ½
10	7	4.3m	I ½	H
15	7	4.3m	K	I

Take-All Patch Trial



Trace Elements For Managing Disease More Effectively



STEP Hi-Mag is proven to reduce disease pressure in turf when used as part of an iTurf programme. Manganese plays an important role in managing Take-all Patch disease and, when used efficiently, helps to minimise its occurrence.

An STRI trial showed that by combining the high Manganese contained in STEP Hi-Mag with a slow release SierraformGT programme, Take-all Patch level is maintained at an acceptable level of under 2% cover.

For further information contact your
ICL Technical Area Sales Manager
or visit www.icl-sf.co.uk | www.icl-sf.ie

Sierrablen[®] Plus

Premium technology controlled release mini-prill fertilizers

Contains Poly-S and resin-coated PACE technology with conventional nitrogen sources to provide the best long-term nutrient release patterns.

SierrablenPlus Benefits

- The mini-granular formulation allows even coverage at low rates
- 3+ month, 3 - 4 month and 5+ month longevity available
- Extremely cost-effective at low application rates

Product Performance*

Granule dispersal: 7 days (visually dispersed from surface)
Turf response: 7 days
Longevity: 3+ months, 3 - 4 months and 5+ months

*depending on environmental factors




























Turf
REWARDS
PRODUCT
see pages 4-5

Areas of Use

- ✓✓ Tees
- ✓✓ Fairways
- ✓✓ Sportsfields
- ✓✓ Stadia Pitches



The Complete SierrablenPlus Range

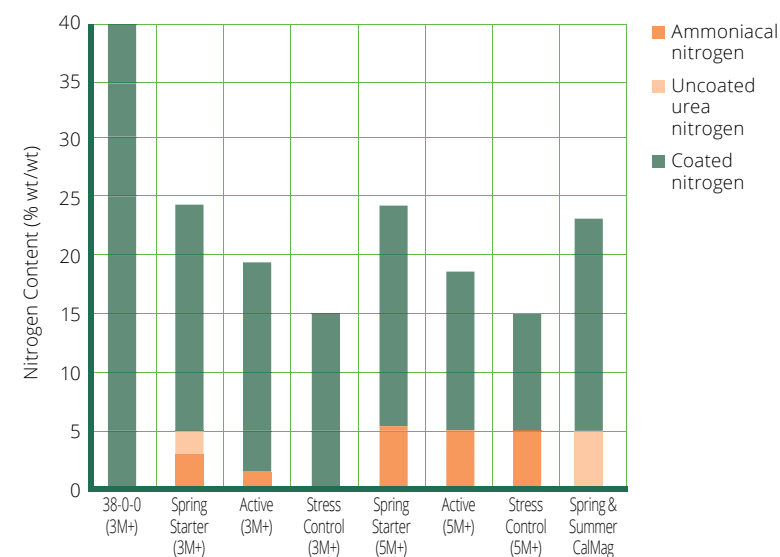
Product Name Oxide Analysis (Elemental Analysis)	Technology/ Longevity	Product Notes
38-0-0 (3+ Months) (38-0-0)	 	Controlled release nitrogen matches plant requirements to give continuous growth for over 3 months.
Spring Starter (3+ Months) 24-5-13 (24-2-2-10.8)	   	Encourages healthy balanced growth at the start of the season.
Active (3+ Months) 19-5-18 +2MgO +TE (19-2-2-14.9 +1.2Mg)	 	Full trace element package to enhance turf health plus magnesium to improve turf colour.
Stress Control (3+ Months) 15-0-28 +2MgO (15-0-23.2 +1.2Mg)	 	High potassium content strengthens cell walls and aids water regulation in plant.
0-0-39 (3 - 4 Months) (0-0-32.4)	  	Ideal controlled release potassium fertilizer for hardening turf coming into winter.
Spring Starter (5+ Months) 24-5-8 +2MgO (24-2-2-6.6 +1.2Mg)	   	Spring Starter fertilizer with nutrients delivered for over 5 months to encourage healthy balanced turf growth.
Active (5+ Months) 18-5-18 +2MgO (18-2-2-14.9 +1.2Mg)	   	Balanced NK fertilizer with phosphorus for use from spring to autumn. Magnesium content helps to improve turf colour.
Stress Control (5+ Months) 15-5-22 +2MgO (15-2-2-18.3 +1.2Mg)	   	Classic turf hardener formulation, ideal for year-round use.
Spring & Summer CalMag 23-0-5 +2CaO +2MgO (23-0-4.1 +1.4Ca +1.2Mg)	 	Long-lasting nutrient release containing polyhalite for added calcium and magnesium.



Spreader Settings

Rate (g/m ²)	Rotary Spreader (AccuPro 2000, SR-2000, SR-1, R8-A)			
	Cone Setting	Spread Width	Single Pass @ Full Rate	Double Pass @ Half Rate
25	4	4.8m	O	L
30	4	4.8m	P	M
35	4	4.8m	R	M ½
40	4	4.8m	S	N
45	4	4.8m	T	N ½

Nitrogen Content in SierrablenPlus



For further information contact your
ICL Technical Area Sales Manager
or visit www.icl-sf.co.uk | www.icl-sf.ie

Sierrablen®

Premium quality controlled release fertilizers for use on tees and outfields

Contains Poly-S and resin-coated controlled release fertilizer granules. The coating technology provides product longevity to suit individual requirements.

Sierrablen Benefits

- Long-standing brand with proven performance in various climatic conditions
- Coated granules provide extended longevity for up to 8 - 9 months
- Provides a consistent nutrient release pattern that reduces leaching

Product Performance*

Granule dispersal: 10 days (visually dispersed from surface)

Turf response: 10 days

Longevity: 4 - 5, 5 - 6 and 8 - 9 months

*depending on environmental factors

Turf
REWARDS











PRODUCT
see pages 4-5

Areas of Use

- ✓✓ Tees
- ✓✓ Fairways
- ✓✓ Sportsfields
- ✓✓ Greens
- Surrounds
- ✓✓ Racecourses



The Complete Sierrablen Range

Product Name Oxide Analysis (Elemental Analysis)	Technology/ Longevity	Product Notes
38-0-0 (38-0-0)	 	Controlled release nitrogen matches plant requirements to give continuous growth over 4 - 5 months.
23-0-5 (23-0-4.1)	 	Mini granular NK fertilizer for general use.
28-5-5 +Fe (28-2.2-4.1 +Fe)	  	Contains controlled release NPK with readily available nitrogen for response at low temperatures.
27-5-5 +Fe (27-2.2-4.1 +Fe)	  	A one application per season, NPK fertilizer.





	Nutrient Breakdown							Bag Sizes (kg)	Application Rate (g/m²)	Nutrient Levels Applied (kg/ha)			Bag Coverage per m²	Recommended Period of Use																
	Nitrogen					Total P (%) Coated)	Total K (%) Coated)			Fe	N	P		K	25kg Bag	J	F	M	A	M	J	J	A	S	O	N	D			
	Total N (%) Coated)	N- NO ₃	N- NH ₄	N- Urea	N- MU ₂																									
	38 (100%)			38					20	30 35 40 45	114.0 133.0 152.0 171.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	667 571 500 444																
	23					5 (100%)			25	35 45	80.5 103.0	0.0 0.0	17.5 22.5	714 556																
	28 (98%)	3.9	4.9	19.2		5 (55%)	5 (100%)	0.5	25	35 45 55	98.0 126.0 154.0	17.5 22.5 27.5	17.5 22.5 27.5	714 556 455																
	27 (98%)	4	5	18		5 (55%)	5 (100%)	0.5	25	40 50 60	108.0 135.0 162.0	20.0 25.0 30.0	20.0 25.0 30.0	625 500 417																

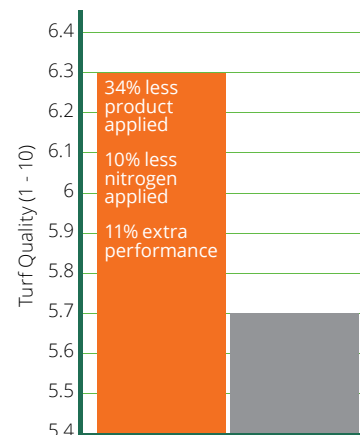


Spreader Settings

Rate (g/m ²)	Rotary Spreader (AccuPro 2000, SR-2000, SR-1, R8-A)			
	Cone Setting	Spread Width	Single Pass @ Full Rate	Double Pass @ Half Rate
30	4	4.7m	R ½	N
35	4	4.7m	T ½	O
40	4	4.7m	V	O ½
45	4	4.7m	X	P
50	4	4.7m	n/a	Q
55	4	4.7m	n/a	R
60	4	4.7m	n/a	R ½

Turf Quality, 5 Months After Application

- Sierrablen 38-0-0, 86kg N/ha
- Competitor 28-0-0, 96kg N/ha



Not all controlled release fertilizers are the same. The quality of the coating used and the percentage of nutrients that are coated all affect a fertilizer's reliability and performance. An STRI trial showed that Sierrablen 38-0-0 with 4 - 5 month longevity delivered superior turf quality with less nitrogen and at a lower application rate than a competitor 28-0-0, 5 months longevity product.

For further information contact your ICL Technical Area Sales Manager or visit www.icl-sf.co.uk | www.icl-sf.ie

ProTurf®

High impact fertilizers for tees, surrounds, fairways, sportsfields and lawns

A range of high-quality, blended fertilizers with controlled release technology. They are formulated to give a strong immediate response, combined with 2 - 3 month longevity.

ProTurf Benefits

- Quick release portion gives immediate response
- Controlled nutrient delivery sustains growth for 2 - 3 months
- High quality blend in a cost-effective formulation
- Contains polyhalite (with K, Mg and Ca)

Product Performance*

Granule dispersal: 8 days (visually dispersed from surface)
Turf response: 7 days
Longevity: 2 - 3 months

*depending on environmental factors

Turf
REWARDS

PRODUCT
see pages 4-5

Areas of Use

- ✓✓ Tees
- ✓✓ Fairways
- ✓✓ Sportsfields
- ✓✓ Lawns
- ✓✓ Stadia Pitches



The Complete ProTurf Range

Product Name Oxide Analysis (Elemental Analysis)	Technology/ Longevity	Product Notes
20-0-7 +3CaO +3MgO (20-0-5.8 +2.1Ca +1.8Mg)	2-3	Strong initial boost coupled with longevity. Ideal for in-season applications.
15-5-15 +2CaO +2MgO (15-2.2-12.4 + 1.2Mg + 1.4Ca)	2-3	Superior colour response and sward density improvement.
21-5-6 +2.5CaO +2.5MgO (21-2.2-4.3 + 2.1Ca + 1.5Mg)	2-3	Instant colour response and growth boost for long-lasting turf quality.
12-5-20 +2CaO +2MgO (12-2.2-16.6 +1.4Ca +1.2Mg)	2-3	Designed to sustain, strengthen and harden turf through the autumn and winter.





	Nutrient Breakdown								Bag Sizes (kg)	Application Rate (g/m²)	Nutrient Levels Applied (kg/ha)			Bag Coverage per m²	Recommended Period of Use																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
	Nitrogen				Total P	Total K	CaO	MgO			N	P	K		25kg Bag	J	F	M	A	M	J	J	A	S	O	N	D																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
	Total N (% Coated)	N-NO ₃	N-NH ₄	N-Urea																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
	20 (25%)			20		7	3	3	25 500	20 25 30 35	40.0 50.0 60.0 70.0	0.0 0.0 0.0 0.0	14.0 17.5 21.0 24.5	1,250 1,000 833 714																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	</



Spreader Settings

Rate (g/m ²)	Rotary Spreader (SR-2000 or AccuPro 2000)			
	Cone Setting	Spread Width	Single Pass @ Full Rate	Double Pass @ Half Rate
20	6	5.0m	N ½	K ½
25	6	5.0m	O ½	L
30	6	5.0m	P	M
35	6	5.0m	Q ½	N

Explaining Polyhalite

Polyhalite is a component part of the ProTurf range.

Polyhalite is a new naturally occurring mineral fertilizer containing potassium, magnesium and calcium. Deposited over 200 million years ago it is a complex crystal product that has been discovered at a depth of 1300 metres in the Cleveland Potash mine in the UK. Polyhalite is an exciting new addition to our fertilizer portfolio.

Extensive trial work has confirmed that the principal nutrients of potash, magnesium and calcium in polyhalite are fully available to the plant, performing in trials with the same plant-efficiency as standard individual sources of potassium and magnesium sulphate.



ICL Group Boulby Mine (Cleveland, UK), source of multi-nutrient compound

For further information contact your
ICL Technical Area Sales Manager
or visit www.icl-sf.co.uk | www.icl-sf.ie

Sportsmaster®

High quality mini-granular fertilizer range for sports and amenity turf

The industry-standard fertilizer for turf mown above 6mm. The various analyses are designed to maintain turf performance throughout the year.

Sportsmaster Benefits

- High quality ingredients within each granule
- Uniformity of mini-granule allows even spreading at low rates
- Quick breakdown of granule for fast response

Product Performance*

Granule dispersal: 4 - 5 days
Turf response: 7 days
Longevity: 6 weeks

*depending on environmental factors

Areas of Use

- ✓✓ Tees
- ✓✓ Fairways
- ✓✓ Sportsfields
- ✓✓ Lawns



The Sportsmaster Range

Product Name Oxide Analysis (Elemental Analysis)	Product Notes
Fairway 12-6-9 +3MgO (12-2.6-7.5 +1.8Mg)	Ideal for use during spring and summer periods when grass is growing strongly.
NK 12-0-9 +Fe (12-0-7.5 +Fe)	The NK analysis is ideal for spring and summer periods.
Spring & Summer 9-7-7 (9-3.1-5.8)	All-rounder that breaks down quickly to give rapid uptake of nutrients.
Autumn 4-12-12 (4-5.2-10.0)	Ideally used to strengthen turf in autumn or when turf needs pre-stress conditioning.
Pre-Seeder 8-12-8 +3MgO (8-5.2-6.6 +1.8Mg)	High phosphorus analysis to enhance seed establishment and to improve rooting.
Renovator Pro 14-0-5 +Fe +Herbicide (14-0-4.1 +Fe +Herb) MAPP No 16803 / PCS No 02512	Weed, feed and mosskiller maintains growth and contains a selective herbicide for weed control plus iron for moss control.
Cleanrun Pro 14+0+5 +Herbicide (14+0+4.1 +Herb) MAPP No 15828 / PCS No 92260	Weed and feed single application in spring or summer periods when broad-leaved weeds are present.

6
Weeks



Fertilizers

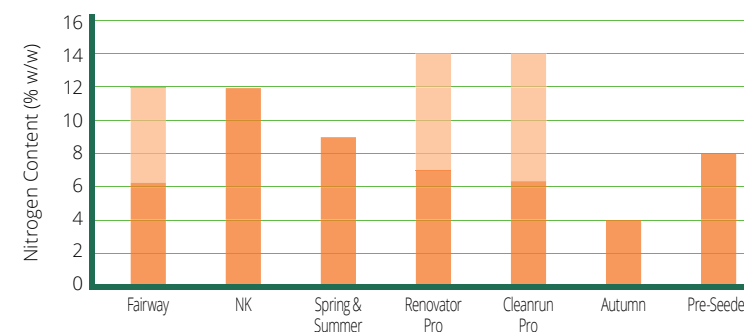
	Nutrient Breakdown								Bag Sizes (kg)	Application Rate (g/m²)	Nutrient Levels Applied (kg/ha)			Bag Coverage per m²	Recommended Period of Use												
	Nitrogen				Total P	Total K	MgO	Fe			N	P	K		25kg Bag	J	F	M	A	M	J	J	A	S	O	N	D
	Total N	N-NH₄	N-Urea	Organic																							
	12	6.2	5.8		6	9	3		25	35 40 45 50	42.0 48.0 54.0 60.0	21.0 24.0 27.0 30.0	31.5 36.0 40.5 45.0	714 625 556 500													
	12	12				9		1	25	35 40 45 50	42.0 48.0 54.0 60.0	0.0 0.0 0.0 0.0	31.5 36.0 40.5 45.0	714 625 556 500													
	9	9			7	7			25	35 50 60 70	31.5 45.0 54.0 63.0	24.5 35.0 42.0 49.0	24.5 35.0 42.0 49.0	714 500 417 357													
	4	4			12	12			25	35 50 60 70	14.0 20.0 24.0 28.0	42.0 60.0 72.0 84.0	42.0 60.0 72.0 84.0	714 500 417 357													
	8	8			12	8	3		25	30 45 50	24.0 36.0 40.0	36.0 54.0 60.0	24.0 36.0 40.0	833 556 500													
	14	10.9	3.1			5		6	25	35	35.0	7.0	14.0	714													
	14	5.8	8.2			5			25	35	35.0	7.0	14.0	714													

Spreader Settings

Rate (g/m²)	Rotary Spreader (AccuPro 2000, SR-2000, SR-1, R8-A)				Drop Spreader (SS-1, SS-2)		
	Cone Setting	Spread Width	Single Pass @ Full Rate	Double Pass @ Half Rate	Spread Width	Single Pass @ Full Rate	Double Pass @ Half Rate
Sportsmaster							
35	4	3.7m	P ½	L ½	0.91m	6	4 ½
40	4	3.7m	Q	M	0.91m	6 ¼	4 ¾
45	4	3.7m	R	M ½	0.91m	6 ¾	5
Sportsmaster Organic							
35	3	5.5m	V	P	0.91m	9	5 ½
40	3	5.5m	X	Q	0.91m	10	6
45	3	5.5m	n/a	R	0.91m	11	6 ½

Nitrogen Content

- Ammoniacal nitrogen
- Urea nitrogen
- Organic nitrogen



For further information contact your ICL Technical Area Sales Manager or visit www.icl-sf.co.uk | www.icl-sf.ie

Sportsmaster® CRF Mini

A combination of controlled and
conventional release technology

The Sportsmaster CRF Mini range contains a combination of controlled release technology with conventional granular fertilizers to provide a consistent growth response for up to 3 months.

Sportsmaster CRF Mini Benefits

- ▶ Mini-granular premium fertilizer for use on a wide range of turf types
- ▶ Polyhalite included for enhanced performance
- ▶ Controlled nutrient delivery sustains growth for up to 3 months
- ▶ Quick start nitrogen sources

Product Performance*

Granule dispersal: 8 days (visually dispersed from surface)
Turf response: 7 days
Longevity: 2 - 3 months

*depending on environmental factors

**Turf
REWARDS**

PRODUCT
see pages 4-5

Areas of Use

- ✓✓ Tees
- ✓✓ Fairways
- ✓✓ Sportsfields
- ✓✓ Stadia Pitches



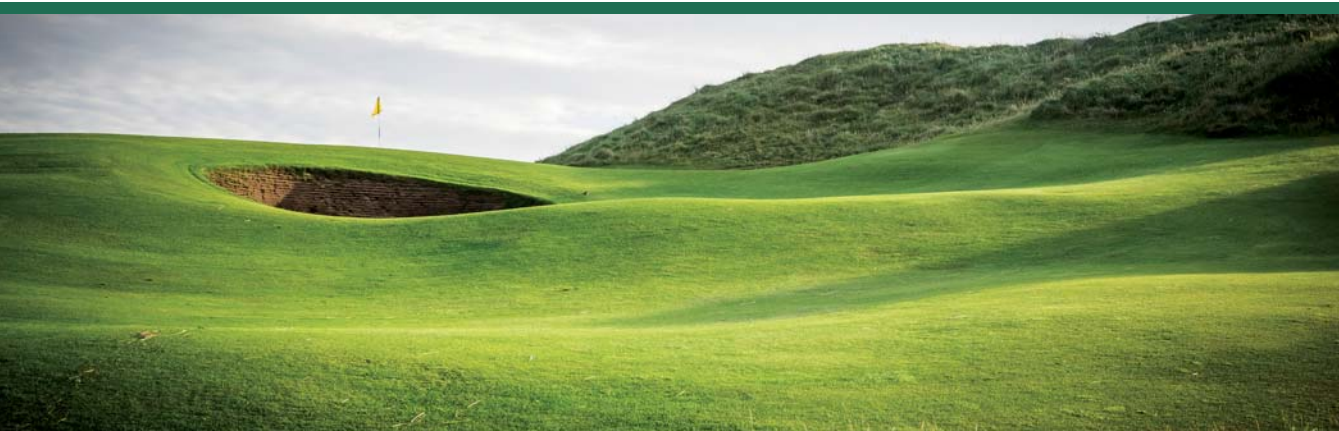
The Complete Sportsmaster CRF Mini Range

Product Name Oxide Analysis (Elemental Analysis)	Technology/ Longevity	Product Notes
High N 24-5-11 (24-2.2-9.1)	2-3	Ideal first controlled release fertilizer application of the season. Quick reaction in cooler conditions.
Spring Starter 20-5-10+2MgO (20-2.2-8.3+1.2Mg)	2-3	Ideal for use as an early season boost and will sustain turf health through the growing season.
Start 19-19-5 +2MgO +TE (19-8.3-4.1 +1.2Mg +TE)	2-3	Ideal for use when over-seeding or laying down new turf. Note does not contain polyhalite.
Active 15-5-15+2CaO+2MgO (15-2.2-17.4 +1.4Ca +1.2Mg)	2-3	Ideal for pre-stress conditioning.
Stress Control 10-5-21+2CaO+2MgO (10-2.2-17.4 +1.4Ca +1.2Mg)	2-3	Designed to sustain turf health during autumn and winter and aid recovery after periods of stress.





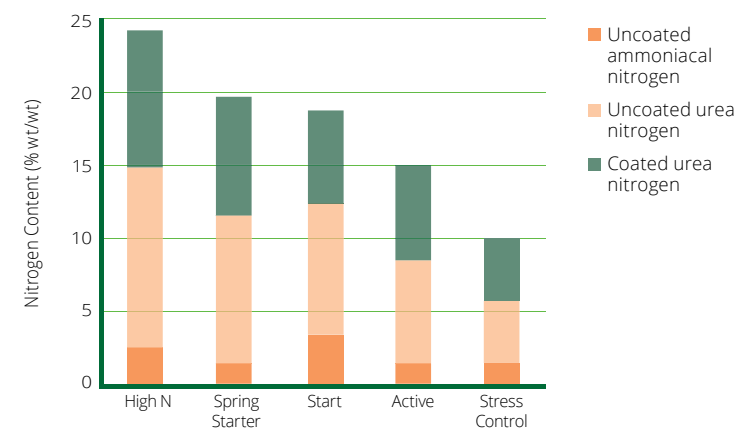
	Nutrient Breakdown						Bag Sizes (kg)	Application Rate (g/m²)	Nutrient Levels Applied (kg/ha)			Bag Coverage per m²	Recommended Period of Use													
	Total N (% Coated)	Nitrogen		Total P	Total K	MgO			CaO	N	P		K	25kg Bag	J	F	M	A	M	J	J	A	S	O	N	D
		N-NH₄	N-Urea																							
24 (42%)	2.5	21.5	5	11			25	20 25 30 35	48.0 60.0 72.0 84.0	10.0 12.5 15.0 17.5	22.0 27.5 33.0 38.5	714 - 1,250														
20 (43%)	1.4	18.2	5	10	2		25	20 25 30 35	40.0 50.0 60.0 70.0	10.0 12.5 15.0 17.5	20.0 25.0 30.0 35.0	714 - 1,250														
19 (42%)	3.5	15.5	19	5	2		25	20 25 30 35	38.0 47.5 57.0 66.5	38.0 47.5 57.0 66.5	10.0 12.5 15.0 17.5	714 - 1,250														
15 (41%)	1.4	13.2	5	15	2	2	25	20 25 30 35	30.0 37.5 45.0 52.5	10.0 12.5 15.0 17.5	30.0 37.5 45.0 52.5	714 - 1,250														
10 (41%)	1.4	8.2	5	21	2	2	25	20 25 30 35	20.0 25.0 30.0 35.0	10.0 12.5 15.0 17.5	42.0 52.5 63.0 73.5	714 - 1,250														



Spreader Settings

Rate (g/m ²)	Rotary Spreader (AccuPro 2000, SR-2000, SR-1, R8-A)			
	Cone Setting	Spread Width	Single Pass @ Full Rate	Double Pass @ Half Rate
20	3	5m	Q ½	N ½
25	3	5m	R ½	O
30	3	5m	S ½	P
35	3	5m	T	Q

Nitrogen Content in Sportsmaster CRF Mini



For further information contact your
ICL Technical Area Sales Manager
or visit www.icl-sf.co.uk | www.icl-sf.ie

Sportsmaster[®] Turf

New generation cost-effective controlled release technology for large turf areas

Sportsmaster Turf contains new E-Max controlled release technology to deliver nutrition consistently over an extended period. The formulation contains a balanced blend of NPK to support turf health through all stages of establishment and maturity.

Sportsmaster Turf Benefits

- 30% of nitrogen coated with E-Max Technology
- Consistent nitrogen release sustains turf colour for up to 3 months
- Balanced nutrition to suit all soil types
- Cost-effective formulation

Product Performance*

Granule dispersal: 7 days (visually dispersal from surface)
Turf response: 7 days
Longevity: up to 3 months

*depending on environmental factors

Product Characteristic

Type: Granular
Pack size: 500kg

Areas of Use

- ✓✓ Racecourses
- ✓✓ Turf Production
- ✓✓ Outfield

Recommended Period of Use

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

ICL Made-To-Order

Custom build the ideal liquid turf applications for your turf nutrition

ICL are proud to offer you the capability to create your own made-to-order liquid fertilizers. Working with your local ICL Area Sales Manager you will be able to create your own bespoke mixes of branded ICL liquid fertilizer products.

It couldn't be simpler!

- You will firstly need to **choose the product** base nutrition source. This could be N-only, NK or NPK (or none) chosen from a selection of high quality ICL Greenmaster Liquid fertilizers.
- You then **choose the supplements** that you want to add. Again this will be from a selection of ICL brands including Vitanova Blade, Vitalnova AminoBoost, Greenmaster Liquid Effect Fe, and H2Pro wetting agents. The choice of supplement will be dependent on the needs of your turf and the reaction you require.

You may be wishing to enhance biological activity in the soil, encourage rooting, relieve turf stress, harden the turf or manage soil moisture more effectively or achieve a combination of these benefits.

- With the help of your ICL Turf Specialist you will then choose the relative proportioning of each ingredient to create the **ideal blend** of liquid nutrition for your turf. You will be able to check the analysis and decide on the ideal application rate.
- All that remains is to agree the quantity required (200 – 1,000 litres) and the price before placing your order.

Our ICL made-to-order service aim is to supply high quality and cost-effective liquid nutrition products that are tailored to the needs of your turf. All formulations will be fully tested by our team of formulation chemists for stability and compatibility before being approved for shipping.

With ICL made-to-order liquid fertilizers we will draw from your experiences and our expertise to help you create turf that performs better and better throughout the year.



Contact
www.icl-sf.co.uk
www.icl-sf.ie

Fertilizers

Greenmaster[®] Liquid

Liquid fertilizers with foliar and root uptake

The formulation allows quick foliar uptake and nutrient movement through the plant.

Greenmaster Liquid Benefits

- Foliar feeding is available at lower water rates
- Compatible with Sportsmaster WSF SeaMax, the Vitalnova range of biostimulants, H2Pro wetting agents, Primo Maxx II and many more ICL products
- Up to 6 weeks longevity

Product Performance*

Turf response: < 24 hours
Longevity: 2 - 6 weeks (depending on rate)

*depending on environmental factors

Turf
REWARDS

PRODUCT
see pages 4-5

Areas of Use

- ✓✓ Greens
- ✓✓ Tees
- ✓✓ Fairways
- ✓✓ Sportsfields
- ✓✓ Stadia Pitches



The Complete Greenmaster Liquid Range

Product Name Oxide Analysis (Elemental Analysis)	Technology/ Longevity	Product Notes	Nutrient Breakdown					
			Nitrogen				Total P	Total K
			Total N	N-NO ₃	N-NH ₄	N-Urea		
High N 25-0-0 +2MgO + TE (25-0-0 +1.2Mg + TE)		Mixed nitrogen sources to optimise plant uptake. Magnesium and trace elements to enhance turf health.	25	7.3	5.9	11.8		
Spring & Summer 12-4-6 +TE (12-1.7-5 +TE)		Complete NPK formula for main season feeding without excess growth.	12	0.8		11.2	4	6
NK 10-0-10 +TE (10-0-8.3 +TE)		The NK ratio balances growth and toughens the sward. Trace elements enhance turf health.	10	0.7	0.7	8.6		10
High K 3-3-10 +TE (3-1.3-8.3 +TE)		Designed to apply prior to stressful periods. Trace elements enhance turf health.	3	0.3	0.3	2.4	3	10
Ca-Booster 8-0-0 +9CaO (8-0-0 +6.4Ca)		Strengthens plant cell walls to toughen turf during stressful conditions.	8	7	1			
Effect Iron Fe 6.3Fe (6.3Fe)		For use throughout the growing season. Gives green-up within 3 hours.						
STEP Liquid Chelated Trace Elements		Contains chelated trace elements to maximise nutrient delivery and to prevent soil lock-up.						



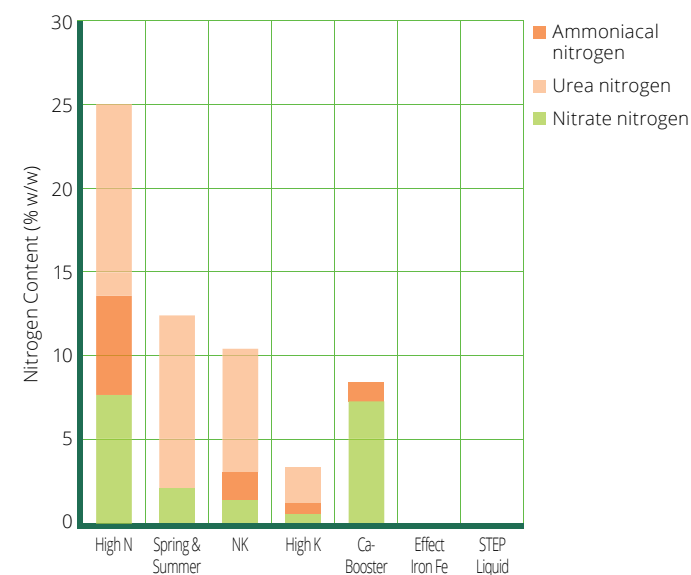
Nutrient Breakdown								Specific Gravity (kg/L)	Pack Sizes (L)	Application Rate (L/ha)	Water Volume (L/ha)	Nutrient Levels Applied (kg/ha)			Pack Coverage (m² per 10L pack)	Recommended Period of Use											
CaO	MgO	B	Cu	Fe	Mn	Mo	Zn					N	P	K		J	F	M	A	M	J	J	A	S	O	N	D
	2	0.01	0.004		0.01	0.001	0.004	1.31	10 200	40 80	400 - 600 (Foliar)	13.1 26.2	0.0 0.0	0.0 0.0	2,500 1,250												
										100 120	600 - 1,000 (Root)	32.8 39.3	0.0 0.0	0.0 0.0	1,000 833												
		0.01	0.004		0.01	0.001	0.004	1.18	10 200	40 80	400 - 600 (Foliar)	5.7 11.3	1.9 3.8	2.8 5.7	2,500 1,250												
										100 120	600 - 1,000 (Root)	14.2 17.0	4.7 5.7	7.1 8.5	1,000 833												
		0.01	0.004		0.01	0.001	0.004	1.23	10 200	40 80	400 - 600 (Foliar)	4.9 9.8	0.0 0.0	4.9 9.8	2,500 1,250												
										100 120	600 - 1,000 (Root)	12.3 14.8	0.0 0.0	12.3 14.8	1,000 833												
		0.01	0.004		0.01	0.001	0.004	1.18	10 200	40 80	400 - 600 (Foliar)	1.4 2.8	1.4 2.8	4.7 9.4	2,500 1,250												
										100 120	600 - 1,000 (Root)	3.5 4.2	3.5 4.2	11.8 14.2	1,000 833												
9		0.01	0.004		0.01	0.001	0.004	1.32	10	20 40	400 - 600 (Foliar)	2.1 4.2	0.0 0.0	0.0 0.0	5,000 2,500												
										60	600 - 1,000 (Root)	6.3	0.0	0.0	1,667												
				6.3				1.25	10 200	10 20	400 - 600 (Foliar)	0.0 0.0	0.0 0.0	0.0 0.0	10,000 5,000												
										30	600 - 1,000 (Root)	0.0	0.0	0.0	3,333												
		0.200	1.000		1.500	0.100	1.000	1.15	10	20 40	400 - 600 (Foliar)	0.0 0.0	0.0 0.0	0.0 0.0	5,000 2,500												
										60	600 - 1,000 (Root)	0.0	0.0	0.0	1,667												

Sprayer Information

Spray Quality	Retention on Leaf Surface	Potential Drift Hazard*	Foliar Applications	Root Applications
Very Fine	Good	High	✓✓	✗
Fine	Good		✓	✗
Medium	Good		✓	✓
Coarse	Moderate		✓	✓
Very Coarse	Poor	Very Low	✗	✓✓

*Spray drift can be minimised by using Colour Pro® Indicator

Nitrogen Content in Greenmaster Liquid



For further information contact your ICL Technical Area Sales Manager or visit www.icl-sf.co.uk | www.icl-sf.ie

Vitalnova[®] Blade

A proven biostimulant to boost microbial activity in soil and encourage rooting

A totally unique biostimulant for turf, containing a carefully engineered concentration of carbohydrates (sugars), seaweed and micronutrients.

Vitalnova Blade Benefits

- Increases rootmass by up to 40%
- Up to 50% increase in levels of beneficial bacteria
- Stimulates root dwelling microbes to improve nutrient uptake
- A versatile addition to an integrated turf management strategy

Product Characteristics

Pack size: 10 litre and 200 litre
Analysis: 5-6.5-3.5 (5-2.8-2.9) +
carbohydrates + seaweed + TE

Application Rate

Application rate: 25 – 50 L/ha
Water Volume: 400 – 1,000 L/ha
Recommended treatment frequency: Monthly

Product Performance*

Turf response: < 24 hours
Longevity: 2 - 6 weeks (depending on rate)

*depending on environmental factors

Turf
REWARDS

PRODUCT
see pages 4-5

Areas of Use

- ✓✓ Greens
- ✓✓ Tees
- ✓✓ Fairways
- ✓✓ Sportsfields
- ✓✓ Stadia Pitches



Recommended Period of Use

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

Vitalnova[®] Stressbuster

Unique liquid formulation designed to pre-condition turf against stress.

Vitalnova Stressbuster is a specially formulated liquid treatment to help condition turf against stress and also aid recovery from stress.

Vitalnova Stressbuster Benefits

- Helps condition turf against stress
- Provides turf boost at any time of year
- Immediate colour-up response

Product Characteristics

Pack size: 10 litre and 200 litre
Analysis: 7-0-0 +2Fe + sugars + wetting agent
+ amino + TE

Application Rate

Application rate: 25 – 50 L/ha
Water Volume: 400 – 600 L/ha
Recommended treatment frequency: Monthly

Product Performance*

Turf response: Immediate
Longevity: 3 - 4 weeks

*depending on environmental factors

Turf
REWARDS

PRODUCT
see pages 4-5

Areas of Use

- ✓✓ Lawns
- ✓✓ Stadia Pitches
- ✓✓ Fairways
- ✓✓ Sportsfields
- ✓✓ Greens



Recommended Period of Use

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

Contact
www.icl-sf.co.uk
www.icl-sf.ie

Vitalnova[®] AminoBoost

Liquid fertilizer containing Amino Acids
designed for foliar feeding in the summer.

Designed to enhance turf quality, and support a healthy plant, Vitalnova AminoBoost is an ideal product for summer use to stimulate growth or to maintain turf quality through periods of plant stress.

Vitalnova AminoBoost Benefits

- Ideal for summer foliar feeding
- Allows efficient nitrogen uptake in stressed conditions
- A perfect tank-mix partner for Primo Maxx II and other liquid and water soluble products

Product Characteristics

Pack size: 10 litre
Analysis: 8-0-7 (8-0-5.8) + 10% amino acids

Application Rate

Application rate: 10 L/ha
Water Volume: 400 – 600 L/ha
Recommended treatment frequency: Monthly

Product Performance*

Turf response: Immediate
Longevity: 3 - 4 weeks

*depending on environmental factors

Turf
REWARDS

PRODUCT
see pages 4-5

Areas of Use

- ✓✓ Greens
- ✓✓ Fairways
- ✓✓ Sportsfields
- ✓✓ Stadia Pitches



Recommended Period of Use

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

Vitalnova[®] SILK

Potassium silicate formulation designed for leaf and stem cell strengthening.

A specially formulated liquid fertilizer containing high levels of potassium silicate. Vitalnova SILK has been designed to help increase leaf and stem strength to increase wear tolerance and help produce a cleaner cut. Improved plant cell strength may also provide benefits for an integrated approach to the management of leaf and root pathogens.

Vitalnova SILK Benefits

- Potassium silicate formulation
- Designed to improve cell strength
- For use as part of an Integrated Turf Management (ITM) approach

Product Characteristics

Pack size: 10 litre
Analysis: 0-7-12 (0-3-10) + 6% Si

Application Rate

Application rate: 20 L/ha
Water Volume: 400 – 600 L/ha
Recommended treatment frequency: Monthly

Product Performance*

Turf response: Immediate
Longevity: 3 - 4 weeks

*depending on environmental factors



Areas of Use

- ✓✓ Greens
- ✓✓ Fairways
- ✓✓ Sportsfields
- ✓✓ Stadia Pitches



Recommended Period of Use

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

Contact
www.icl-sf.co.uk
www.icl-sf.ie

Vitalnova[®] SeaMax

Liquid formulation of the highly concentrated and effective SeaMax seaweed

Vitalnova SeaMax contains concentrated seaweed extract which has proven to be extremely effective in trials and by end users. The seaweed concentrate has been shown in trials to improve turf colour, turf quality, root development and stress tolerance.

Vitalnova SeaMax Benefits

- Helps enhance root development
- Shown to improve turf colour and quality
- Helps condition turf against stress
- Extremely tank-mix compatible
- Highly concentrated Atlantic *Ascophyllum nodosum*

Application Rate

Application rate: 5 – 10 L/ha
Water Volume: 600 L/ha

Product Characteristics

Type: Liquid
Pack Size: 10 litre & 200 litre
Pack Coverage: up to 2 hectares
Analysis: 4-0-11 (4-0-9.2) +
10% concentrated seaweed

Areas of Use

- ✓✓ Greens
- ✓✓ Tees
- ✓✓ Fairways
- ✓✓ Sportsfields
- ✓✓ Stadia Pitches
- ✓✓ Outfields
- ✓✓ Racecourses

Turf
REWARDS

PRODUCT
see pages 4-5



Recommended Period of Use

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec





Sportsmaster[®] Liquid Fe

Cost-effective liquid iron treatment for
use on sports fields and fairways

Sportsmaster Liquid Fe has been developed to provide a quick and long-lasting green-up to sportsfield and outfield turf. The product is an ideal tank-mix partner for Primo Maxx II.

Sportsmaster Liquid Fe Benefits

- Instant colour response
- Long-lasting results (up to 4 weeks)
- Cost-effective formulation

Product Performance*

Turf Response: Within 24 hours
Longevity: Up to 4 weeks
*depending on environmental factors

Application Rate

Application rate: 20 – 40 L/ha
Water Volume: 500 L/ha

Product Characteristics

Type: Liquid
Pack Size: 200 litre & 1,000 litre
Pack Coverage: 5 – 10 hectares

Areas of Use

- ✓✓ Sportsfields
- ✓✓ Fairways
- ✓✓ Outfields



Recommended Period of Use

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

Contact
www.icl-sf.co.uk
www.icl-sf.ie



Sportsmaster® WSF

High performance ultra soluble fertilizers
for treatment of large turf areas

Contains TMax to enhance foliar and root uptake.
The WSF range provides excellent value when treating
large areas such as golf fairways and sportsfields.

Sportsmaster WSF Benefits

- Cost-effective fertilizer treatment
- TMax enhances nutrient uptake
- Low scorch risk
- Extremely pure and soluble
- Tank-mix compatible with Primo Maxx II

Product Performance*

Granule dispersal: Immediate
Turf response: < 24 hours
Longevity: 2 - 4 weeks (depending on rate)
*depending on environmental factors




Turf
REWARDS
PRODUCT
see pages 4-5

Areas of Use

- ✓✓ Tees
- ✓✓ Fairways
- ✓✓ Sportsfields
- ✓✓ Stadia Pitches
- ✓✓ Racecourses



The Sportsmaster WSF Range

Product Name Oxide Analysis (Elemental Analysis)	Technology	Product Notes	Nutrient Breakdown				
			Nitrogen				Total P
			Total N	N-NO ₃	N-NH ₄	N-Urea	
High N 35-0-14 +0.13Fe (35-0-11.6 +0.13Fe)		Nitrogen boost with potassium content provides balanced growth and stronger turf.	35	4.3		30.7	
High K 15-0-43 +0.13Fe (15-0-35.7 +Fe)		The low nitrogen to high potassium ratio ensures maximum turf hardening and stress conditioning.	15			2.3	
IRON 20%Fe		Produces a dark green sward and promotes disease tolerance.					
SeaMax 4-0-15 +TE (4-0-12.5 +TE)		Premium high density Atlantic <i>Ascophyllum nodosum</i> seaweed extract with proven plant benefits.	4		4		

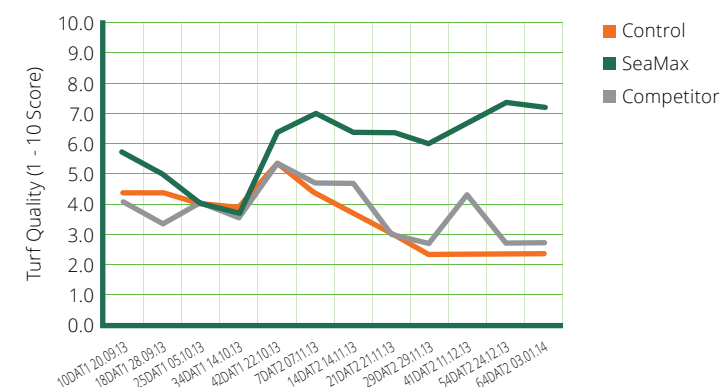


Nutrient Breakdown								Bag Sizes (kg)	Application Rate (kg/ha)	Water Volume (L/ha)	Nutrient Levels Applied (kg/ha)			Bag Coverage per m²	Recommended Period of Use											
Total K	CaO	MgO	B	Cu	Fe	Mn	Zn				N	P	K		15kg Bag	J	F	M	A	M	J	J	A	S	O	N
14								15	15 30	300 - 600 (Foliar)	5.3 10.5	0.0 0.0	2.1 4.2	10,000 5,000												
									45 60	600 - 1,000 (Root)	15.8 21.0	0.0 0.0	6.3 8.4	3,333 2,500												
43								15	15 30	300 - 600 (Foliar)	2.3 4.5	0.0 0.0	6.5 12.9	10,000 5,000												
									45 60	600 - 1,000 (Root)	6.8 9.0	0.0 0.0	19.4 25.8	3,333 2,500												
					20			15	10 15 20	900 (Foliar & Root)				15,000 10,000 7,500												
15	0.2 - 0.5	0.1 - 0.4	60 - 140 ppm	1 - 4 ppm	60 - 200 ppm	4 - 15 ppm	20 - 40 ppm	1	1	600 - 1,000	0.04		0.15	10,000 (1kg pack)												

Independent Sportsmaster WSF SeaMax trial

Significant improvements in turf quality and turf colour occurred after only two treatments compared to another industry standard as well as an untreated control.

Results – Turf Quality



Sportsmaster WSF SeaMax Tank-Mixing

1. Three quarter fill your spray tank with water
2. Turn on agitation
3. Add appropriate tank-mix partner (see compatibility table on pages 122 - 123)
4. Gradually sprinkle required quantity of SeaMax directly into spray tank to allow solubilisation
5. Fill spray tank to required volume with agitation
6. Spray

For further information contact your ICL Technical Area Sales Manager or visit www.icl-sf.co.uk | www.icl-sf.ie

Moisture Management

Water is a precious resource that is essential for premium quality turf

Our unique and flexible range of wetting agents/dew dispersants are designed to optimise water/moisture management.

In liquid, granular and tablet form, these wetting, water conservation and dew dispersant products have been developed to fit into your existing water management strategy. Using patented technology, the range offers preventative and curative products suitable for wet and dry conditions, with the flexibility for application at any time of year.



Moisture Management Contents

H2Pro DewSmart	p40
H2Pro TriSmart	p42
H2Pro FlowSmart	p44
H2Pro AquaSmart	p46
H2Pro Tablet	p48
H2Pro Granule	p49
Qualibra	p50

H₂Pro[®] DewSmart

H₂Pro DewSmart is a newly formulated dew dispersant product for turf grass areas.

DewSmart is designed to prevent or reduce the formation of dew on the grass leaf. This is ideal for use as part of an ITM approach to help minimize the risk of disease outbreaks and improve surface quality.

H₂Pro DewSmart Benefits

- Under optimum conditions 3-4 weeks control of dew can be achieved
- Reduces the need for early morning switching of dew from greens
- Greens can be clear of dew for a cleaner cut and for the early morning golfer
- Simple to apply with standard boom sprayer

Product Performance

Longevity: Up to 21 days if applied in optimum conditions

Product Characteristics

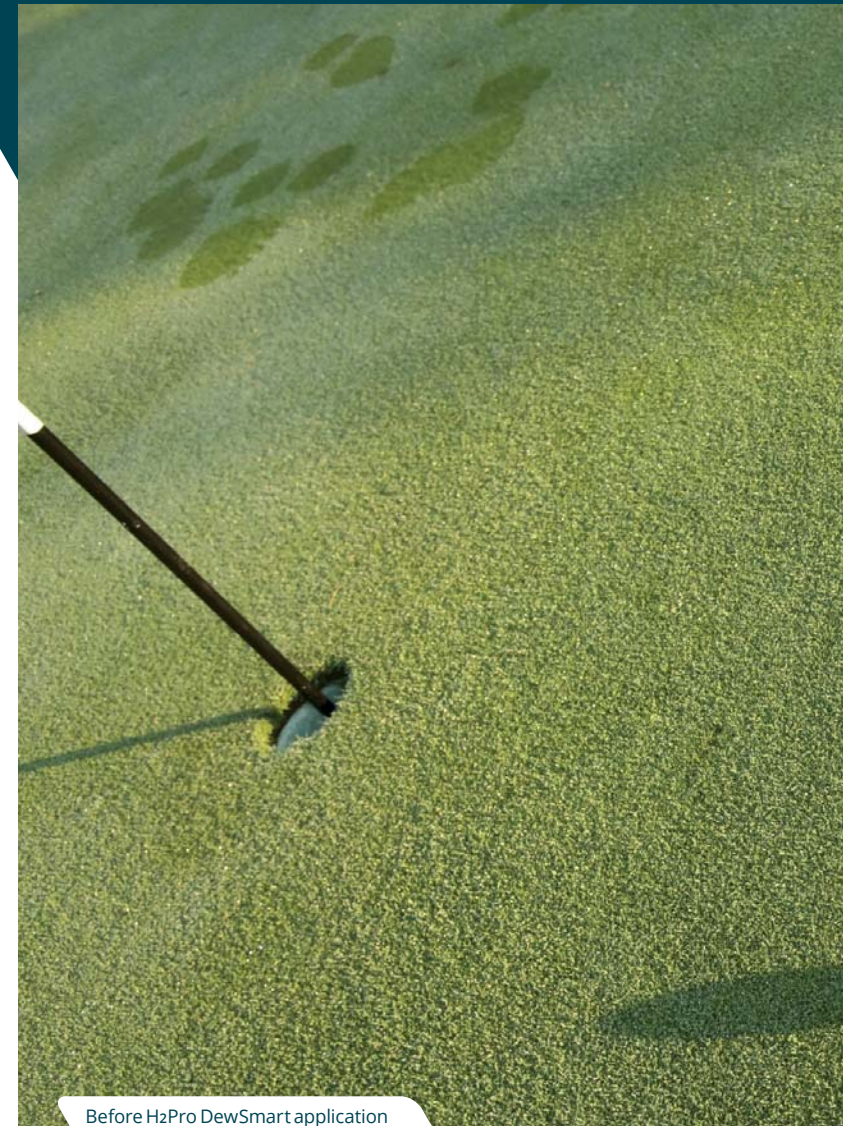
Pack size: 10 litre
Packs per outer: 2 x 10 litre
Pack coverage: 10,000m²

Application Rate

Application rate: 10 L/ha
Water Volume: 300 – 400 L/ha

Areas of Use

- ✓✓ Greens
- ✓✓ Sportsfields
- ✓✓ Stadia Pitches



Before H₂Pro DewSmart application

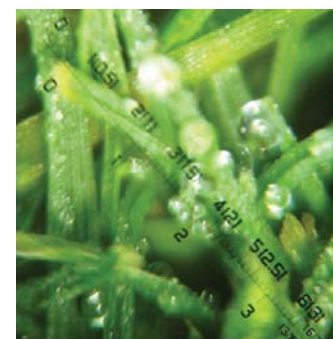


Directions For Use

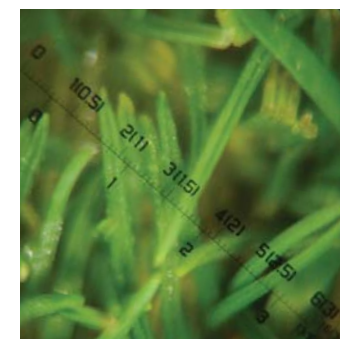
1. The best performance is achieved when applied under optimum conditions
2. Apply to a dry turf surface
3. Cut or brush grass before product application
4. Use nozzles suitable for foliar applications

Tank-mixing Instructions

Seek technical advice to discuss tank-mixing options. Mixing this product with other products may adversely impact performance.



Without Dewsmart



With Dewsmart (26 days after treatment)

Recommended Period of Use

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

For further information contact your
ICL Technical Area Sales Manager
or visit www.icl-sf.co.uk | www.icl-sf.ie

H₂Pro[®] TriSmart

A high quality wetting and water conservation agent

TriSmart is designed for quality turf areas, its unique triple-active formulation provides great control over your moisture management. Containing three water management technologies, it provides great water penetration, even water spread through the rootzone and improves the water holding capacity of sandy rootzones. Very effective against LDS (Localised Dry Patch) development, the block polymer surfactant has also been selected for increased longevity in the rootzone.

H₂Pro TriSmart Benefits

- Offers preventative and curative action against Dry Patch
- Evenly distributes moisture through the upper soil profile
- Significantly reduces irrigation requirements

Product Characteristics

Pack size: 5 litre

Type: Penetrant, Spreading, Holding

Application Rate

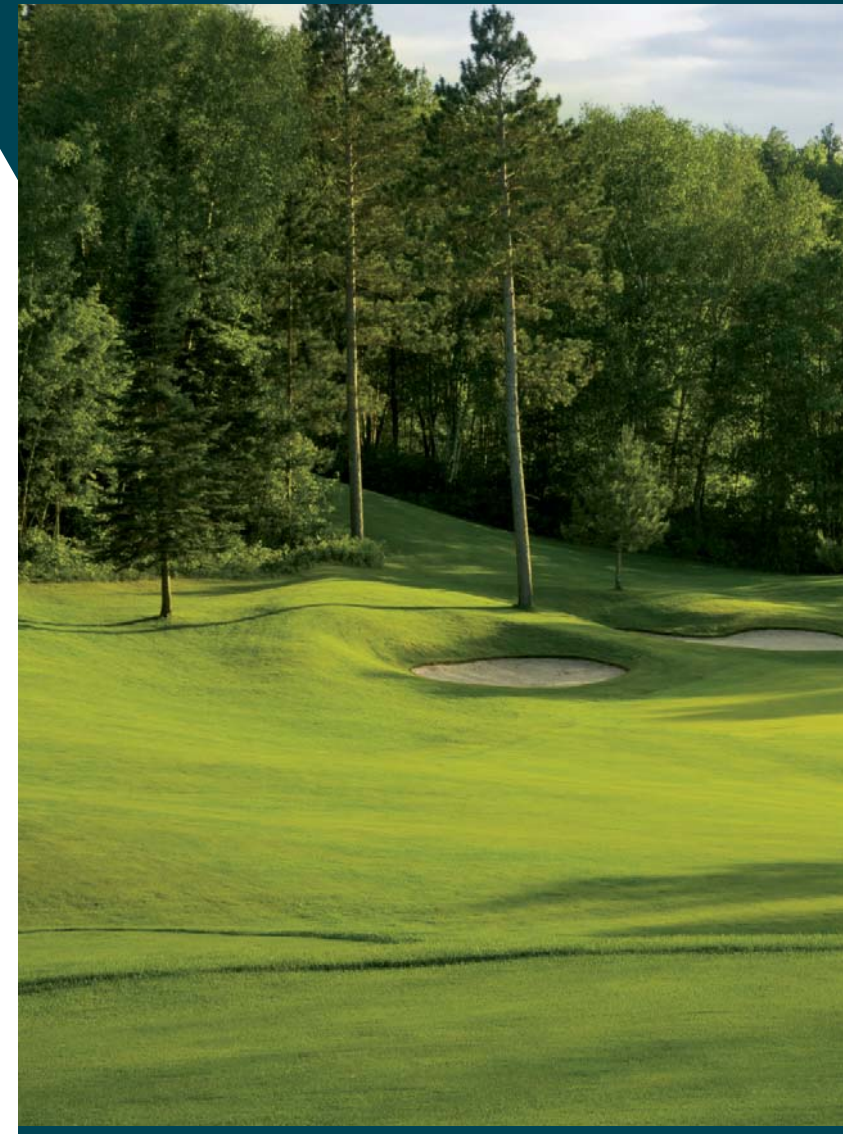
Full programme: 10 L/ha monthly

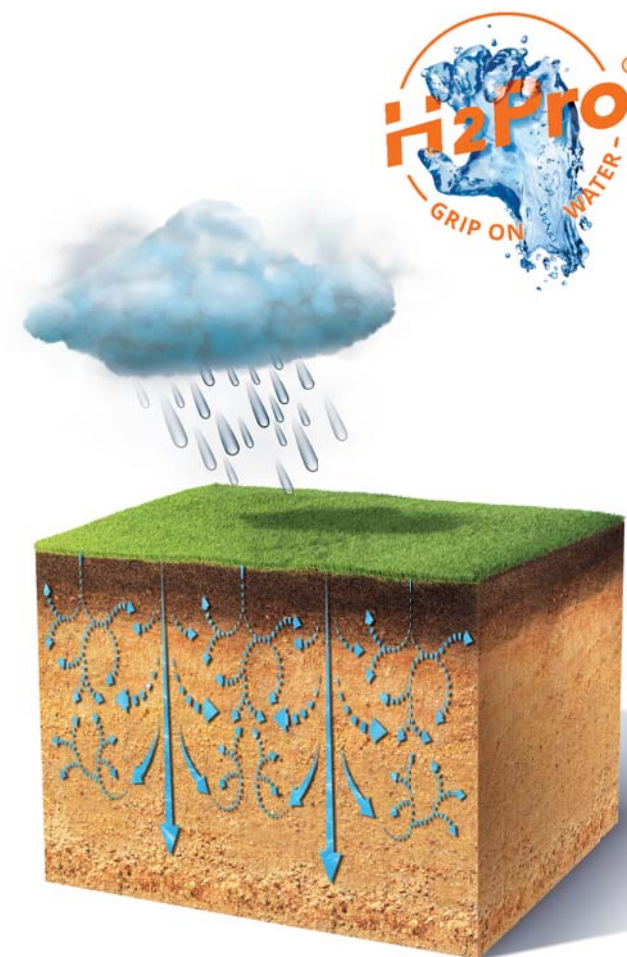
Late-start programme: 25L/ha then 10L/ha monthly

Water Volume: 600 – 1,000 L/ha

Areas of Use

- ✓✓ Greens
- ✓✓ Tees
- ✓✓ Bunker Tops
- ✓✓ Stadia Pitches
- ✓✓ Lawns





Recommended Period of Use

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

For further information contact your
ICL Technical Area Sales Manager
or visit www.icl-sf.co.uk | www.icl-sf.ie

H₂Pro[®] FlowSmart

A high quality wetting and water conservation agent

FlowSmart is the next generation penetrant wetting agent for the industry; FlowSmart combines new surfactant technology as a carefully blended combination of polymer and super-penetrant. FlowSmart reduces surface tension – providing excellent water infiltration and penetration, with a selected block co-polymer to retain FlowSmart in the rootzone allowing re-wetting and continues effective and efficient water penetration and water movement.

H₂Pro FlowSmart Benefits

- Helps surface water penetrate quickly
- Maintain year round playing surfaces, providing a drier surface in wet conditions
- Maximizes the effectiveness of irrigation treatments
- Assist with flushing of carbonates and salts from rootzones

Product Characteristics

Pack size: 5 litre

Type: Penetrant

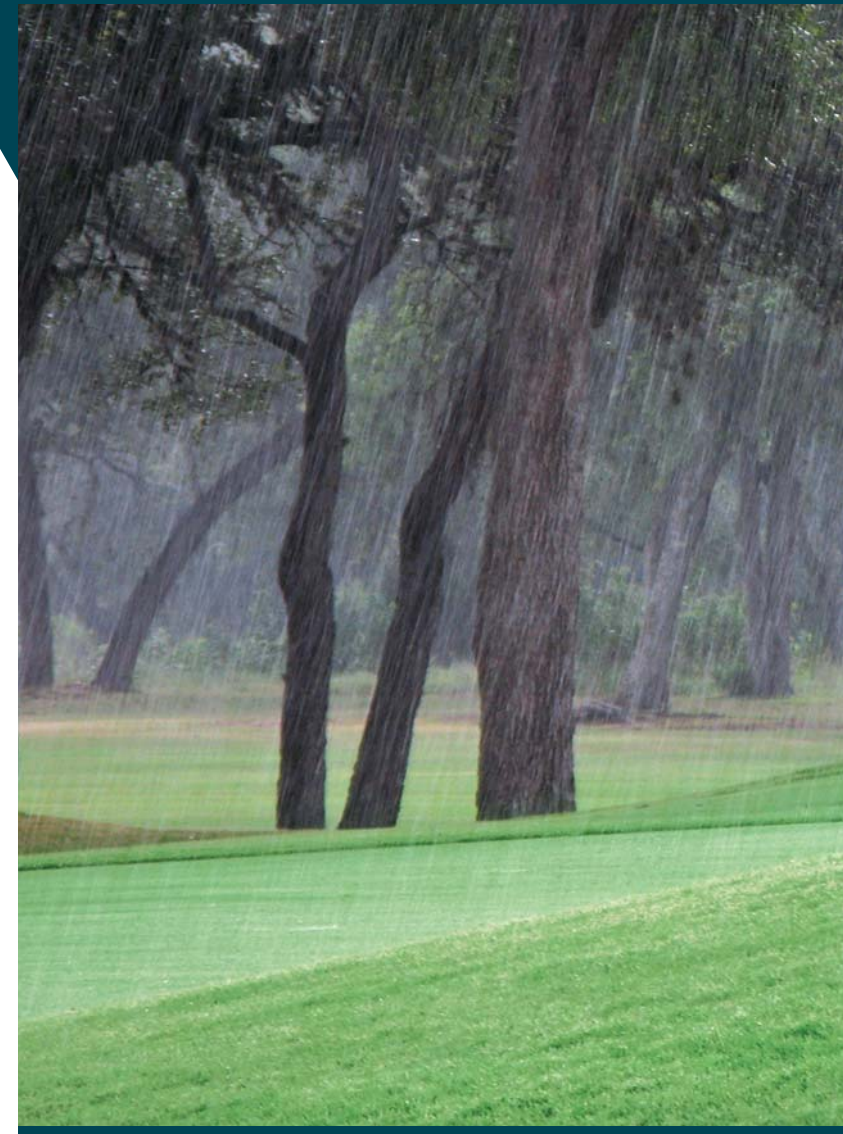
Application Rate

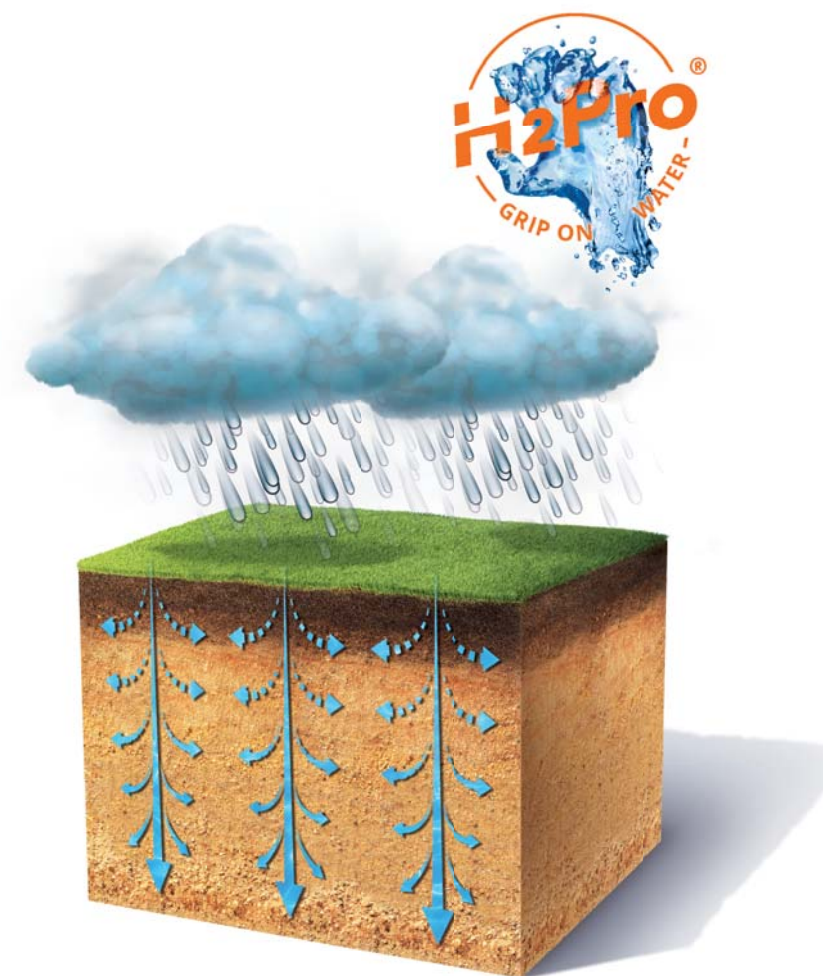
Application rate: 10 L/ha

Water Volume: 250 – 600 L/ha

Areas of Use

- ✓✓ Golf Greens
- ✓✓ Bowling Greens
- ✓✓ Tees
- ✓✓ Bunker Tops
- ✓✓ Green Surrounds
- ✓✓ Fairways
- ✓✓ Sportsfields





Recommended Period of Use

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

For further information contact your
ICL Technical Area Sales Manager
or visit www.icl-sf.co.uk | www.icl-sf.ie

H₂Pro[®] AquaSmart

A high quality wetting and water conservation agent

AquaSmart is an outfield wetting agent designed for a low rate of application and so provides a cost effective programme. The special blend of surfactants in AquaSmart formulated for all soil types can help maintain turf quality through periods of dry weather by maximising the effectiveness of irrigation or rainfall. Essentially it provides greater water-use efficiency by preventing drying and allowing quick rewetting of the soil, so maintaining a healthy plant and a quality turf surface.

H₂Pro AquaSmart Benefits

- Improves water use efficiency for outfield areas
- Reduces incidence of dry patch formation
- Flexible application rates
- Protects turf quality through periods of dry conditions

Product Characteristics

Pack size: 5 litre

Type: Penetrant

Application Rate

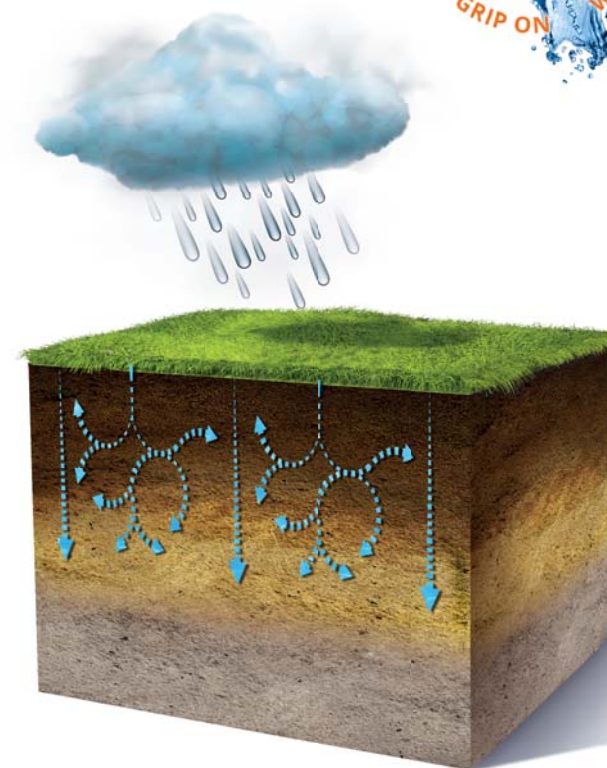
Application rate: 5 L/ha

Water Volume: 400 – 800 L/ha

Areas of Use

- ✓✓ Racecourses
- ✓✓ Fairways
- ✓✓ Sportsfields
- ✓✓ Outfields





Recommended Period of Use

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

For further information contact your
ICL Technical Area Sales Manager
or visit www.icl-sf.co.uk | www.icl-sf.ie

Moisture Management



H₂Pro[®] Tablet

A hose-end applied wetting agent for effective hand watering

H₂Pro Tablet is especially effective for the treatment of localised dry spot and for helping to reduce overall irrigation requirement.

H₂Pro Tablet Benefits

- Effective rewetting through the rootzone
- Excellent water spreading and penetration characteristics
- For spot-treating problem areas and to complement a main wetting agent programme



Product Characteristics

Pack size: 6 x 250g tablets
Pack coverage: 6 x 500m²

Areas of Use

- ✓✓ Greens
- ✓✓ Bunker Tops
- ✓✓ Green Surrounds
- ✓✓ Tees



H₂Pro Tablet

Applicator	Product	Spray Time (minutes)	Area Treated (m ²)
H ₂ Pro Pellet Pro Gun	1 x 250g Tablet	5 - 10	250 - 500

Recommended Period of Use

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec



H₂Pro[®]

Granule

A granular wetting agent, ideal for spot treatments and use on bowling greens

H₂Pro granular formulation is easy to apply across wide or localised areas to improve water management and for the treatment of localised dry patch.

H₂Pro Granule Benefits

- Easy to apply by hand or spreader
- Unique curative and preventative action against Dry Patch/localised Dry Spot
- Can be used at any time during the growing season
- Wash in immediately to move wetting agent into the soil

Product Characteristics

Pack size: 10kg
Pack coverage: 500m²

Application Rate

20g/m²

Areas of Use

- ✓ Golf Greens
- ✓ Bowling Greens
- ✓ Bunker Tops
- ✓ Green Surrounds



H₂Pro Granule

Spreader Type	Cone Setting	Spreader Width (m)	Application Setting (20g/m ²)	
			1x Pass	2x Pass
Rotary Spreader Accupro 2000	5	4.0	M	J
Drop Spreader SS-2	n/a	0.91	4 ¾	3 ¾
Classic Drop Spreader	n/a	0.55	6 ½	–

Recommended Period of Use

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

Contact
www.icl-sf.co.uk
www.icl-sf.ie



Qualibra is a premium wetting and water conservation agent

Qualibra combines a unique and dynamic penetrant with a powerful polymer to optimise water penetration and conservation within the rootzone.

Qualibra Benefits

- Optimises water penetration
- Prevents damaging Dry Patch
- Makes better use of irrigation resources

Product Characteristics

Pack size: 10 litre (200 & 1,000 litre also available)
Packs per outer: 2 x 10 litre
Pack coverage: 5,000m²

Application Rate

Maximum individual dose: 20 L/ha
Water volume: 500 - 1,000 L/ha

Areas of Use

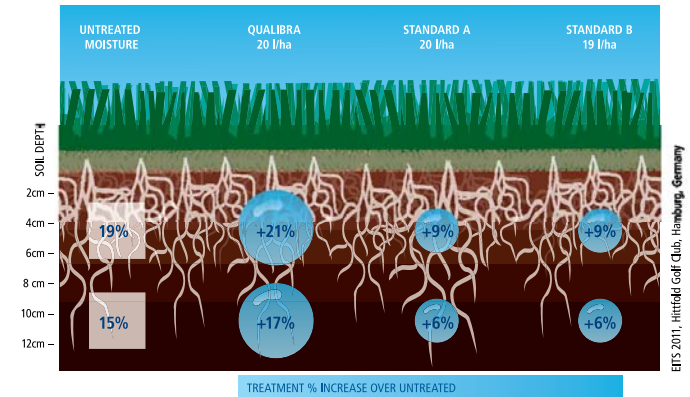
- ✓✓ Greens
- ✓✓ Fairways
- ✓✓ Tees
- ✓✓ Bunker Tops
- ✓✓ Green Surrounds
- ✓✓ Stadia Pitches

Turf
REWARDS
PRODUCT
see pages 4-5





Qualibra Moves and Retains Moisture Deeper



Directions For Use

1. Apply Qualibra at approximately monthly intervals in a preventative programme to prevent the development of localised Dry Spot and aid water management.
2. Typically applied from early spring to autumn, but can be applied throughout the year if required.

Recommended Period of Use

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

For further information contact your
ICL Technical Area Sales Manager
or visit www.icl-sf.co.uk | www.icl-sf.ie

Plant Protection & Control

When it comes to protecting turf and managing landscape areas, ICL's range of plant protection and control products provides the majority of the tools you'll need in your armoury

Powerful, fast-acting herbicides teamed with proven, effective solutions for turfgrass pests and the leading range of fungicides providing preventative, curative and eradicator action, all ensure you stay in control.



Plant Protection & Control Contents

Primo Maxx II	p54	Enforcer	p74
Instrata	p56	Esteron T	p76
Instrata Elite	p58	Rescue	p78
Headway	p60	Roundup ProActive	p80
Banner Maxx II	p62	Roundup ProVantage	p82
Heritage Maxx	p64	Amenity Glyphosate XL	p84
Heritage	p66	Finale 150	p86
Medallion TL	p68	Icade	p88
Nemasys J & G	p70	Proshield	p90
Praxys	p72	Ecoplug Max	p92



The ultimate growth regulator for the improvement of turf performance

Primo Maxx II Benefits

- Increases sward density and root mass
- Reduces mowing frequency by up to 50%
- Enhances turf colour, appearance, strength and resilience
- Improves stress tolerance

Turf
REWARDS
PRODUCT
see pages 4-5

Areas of Use

- ✓ Fine Turf
- ✓ Sportsfields
- ✓ Outfields
- ✓ With Line Marking Paint



Product Characteristics

Pack size: 5 litre & 10 litre
Packs per outer: 4 x 5 litre and 2 x 10 litre
Contains 116.4g/L trinexapac-ethyl
MAPP No. 17509 PCS No. 05401

Application Rate

Maximum individual dose: 3.2 L/ha
Water volume: 300 - 1,000 L/ha
Maximum total dose: 16 L/ha per year

Superior Rooting and Drought Resistance

Bent grass, drought stressed, USGA rootzone

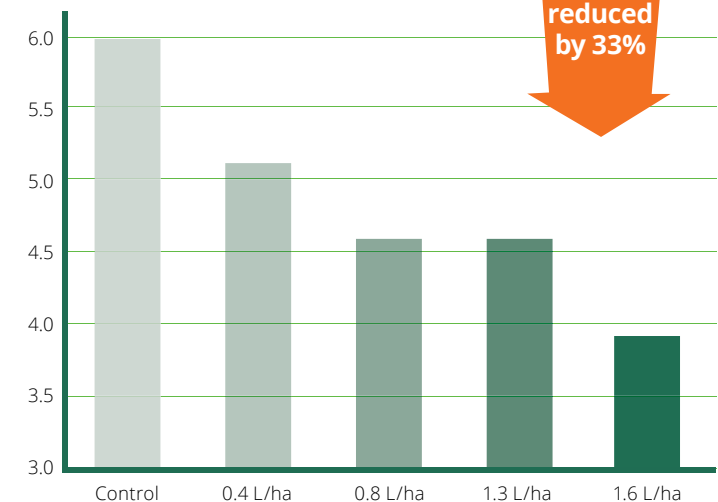


Primo Maxx



Control

Turfgrass Clippings (gDM/m²/day)



Source: Bioforsk. Lepaa, Finland. 2008.
All data mean of 10 observations. LSD 5% = 0.45



Directions For Use

1. To optimise best results, applications can start when consistent grass growth commences or when soil and air temperatures average 8 - 10°C or above for more than 5 days consecutively. For weather and temperature guidance go to www.greencast.co.uk.
2. Various application rates are recommended depending on intended area of use.
3. For best results apply with Liquid N (minimum 2.5kg N/ha).
4. Avoid applications during frosty or drought conditions.
5. Can be tank-mixed with H₂Pro TriSmart and H₂Pro FlowSmart wetting agents, Greenmaster Liquids and Sportsmaster WSF water-soluble fertilizers. Advice should always be sought from your ICL Technical Area Sales Manager before any tank-mix is applied.
6. Mix with Colour Pro® Indicator spray pattern indicator to aid spraying, to condition water and to minimise spray drift.
7. FOR USE ONLY AS A HORTICULTURAL PLANT GROWTH REGULATOR.

Recommended Period of Use

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

Application Rate

Area of Use	Greens	Tees	Fairways and Amenity	Rough and Semi-rough	Winter Sports
First application	April*	April*	April	April	April
Application frequency	Every 2 - 4 weeks	Every 3 - 5 weeks	Every 4 - 6 weeks	Every 5 - 8 weeks	Every 4 - 6 weeks
Height of cut	< 7mm	10 - 18mm	<18mm	>18mm	>10mm
Dose rate	0.2 - 0.4 L/ha	0.8 - 1.6 L/ha	0.8 - 1.6 L/ha	Up to 2.4 L/ha	0.8 - 1.6 L/ha
Notes	Application window depends on growth	Tees containing perennial ryegrass will require increased frequency of application	Fairways mown at <12mm will require more frequent, lower rate applications	Dose rate and frequency will depend on species composition	Use lower rates and frequencies for turf mown below 18mm

*Apply when consistent grass growth commences or when soil and air temperatures average 8 - 10°C or above for more than five days consecutively.



For further information contact your
ICL Technical Area Sales Manager
or visit www.icl-sf.co.uk | www.icl-sf.ie





Unrivalled disease control from
this three-way formulation

Instrata Benefits

- Contact and systemic active ingredients for year-round use
- Protective, curative and eradicant action for effective control
- Quick-acting and long-lasting control

Product Characteristics

Pack size: 3 litre
Packs per outer: 4 x 3 litre
Pack coverage: 3,333m²
Contains 362g/L chlorothalonil,
56.9g/L propiconazole, 14.5g/L fludioxonil
MAPP No. 16458 PCS No. 05186

Application Rate

Maximum individual dose: 9 L/ha
Water volume: 500 - 1,000 L/ha
Maximum number of treatments: 1 per year
per area

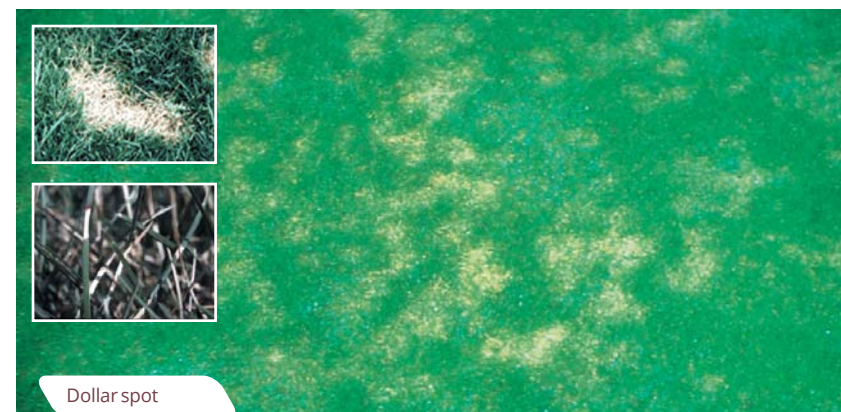
Areas of Use

- ✓ Golf Greens
- ✓ Tees
- ✓ Fairways
- ✓ Bowling Greens

Label Approved Diseases

- ✓ Microdochium patch
- ✓ Anthracnose
- ✓ Dollar spot
- ✓ Brown patch

Turf
REWARDS
PRODUCT
see pages 4-5





Directions For Use

1. To optimise results use preventatively or during early stages of disease establishment.
2. Go to www.greencast.co.uk for weather and temperature guidance and disease prediction service.
3. Avoid applications during frosty or drought conditions.
4. Maximum one treatment per year.
5. Instrata is tank-mixable with other products within the ICL range. Advice should always be sought from your ICL Technical Area Sales Manager before any tank-mix is applied.
6. Mix with Colour Pro® Indicator spray pattern indicator to aid spraying, to condition water and to minimise spray drift.
7. For use on golf courses and bowling greens.
8. Do not apply using a knapsack sprayer.
9. FOR USE ONLY AS A HORTICULTURAL FUNGICIDE.

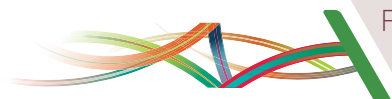
Recommended Period of Use

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

Tank-Mix Table (see pages 122 - 123 for full Tank-Mix Table)

Greenmaster Liquid							Sportsmaster WSF				Biostimulants
High N	Spring & Summer	NK	High K	STEP Liquid	Effect Iron Fe	Ca-Booster	High N	High K	IRON	SeaMax	Vitalnova
✓✓	✓✓	X	X	✓✓	X	X	✓✓	✓✓	✓✓	✓✓	X

Wetting Agents					PGR	Herbicides			Fungicides			
H2Pro TriSmart	H2Pro FlowSmart	H2Pro AquaSmart	H2Pro DewSmart	Qualibra	Primo Maxx II	Praxys	Jewel	Rescue	Headway	Heritage Maxx	Medallion TL	Banner Maxx II
✓✓	X	X	X	✓✓	✓✓	X	X	X	X	X	X	X



For further information contact your
ICL Technical Area Sales Manager
or visit www.icl-sf.co.uk | www.icl-sf.ie



Outside in protection. Contact and systemic action against Microdochium

Instrata Elite Benefits

- Contact and systemic active ingredients
- Broad spectrum disease control
- Acts on all stages of the disease cycle
- Protective and curative action
- Rainfast in 30 minutes

Product Characteristics

Pack size: 1 litre & 3 litre
Packs per outer: 4 x 3 litre
Pack coverage: 1 hectare
Contains 80.3g/L difenoconazole and 80.3g/L fludioxonil
MAPP No. 17976 PCS No. 05399

Application Rate

Maximum individual dose: 3 L/ha
Water volume: 125 - 500 L/ha
Maximum number of treatments: 2 per year

Areas of Use

- ✓ Managed Amenity Turf

Label Approved Diseases

- ✓ Microdochium patch
- ✓ Anthracnose
- ✓ Dollar spot
- ✓ Brown Patch

Turf
REWARDS

PRODUCT
see pages 4-5



MORE THAN A CONTACT

With INSTRATA ELITE you get Syngenta's proven contact + activity – targeting spores in the thatch and at the soil surface, as well as on the leaf. That can quickly reduce disease pressure during high risk periods.



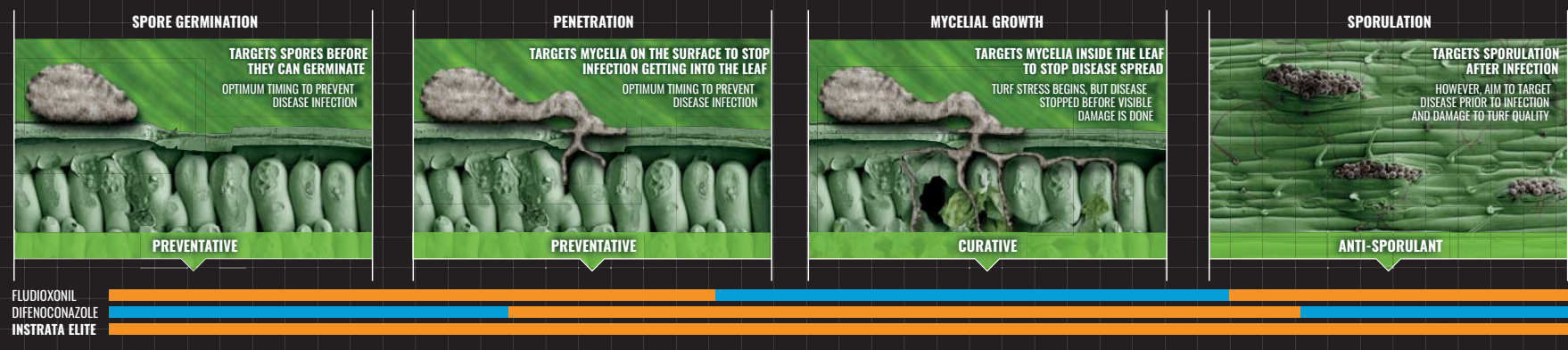
ALL ROUND PROTECTION
ON LEAF, IN LEAF AND IN ORGANIC MATTER



UPTAKE TO NEW GROWTH
UPTAKE FROM LEAF, CROWN AND ROOT

INSTRATA ELITE can not only be taken up by leaves and the crown but also by the roots. So any active applied that finds its way to the rootzone can be taken up and is not lost.

ACTS ON ALL STAGES OF THE DISEASE CYCLE.



■ HIGHLY EFFECTIVE ■ LOWER EFFECT

Recommended Period of Use

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

Tank-Mix Table (see pages 122 - 123 for full Tank-Mix Table)

Greenmaster Liquid							Sportsmaster WSF				Biostimulants
High N	Spring & Summer	NK	High K	STEP Liquid	Effect Iron Fe	Ca-Booster	High N	High K	IRON	SeaMax	VitalNova Blade
✓✓	✓✓	✓✓	✓✓	✓✓	✓	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓

Wetting Agents					PGR	Herbicides			Fungicides			
H2Pro TriSmart	H2Pro FlowSmart	H2Pro AquaSmart	H2Pro DewSmart	Qualibra	Primo Maxx II	Praxys	Jewel	Rescue	Headway	Heritage Maxx	Medallion TL	Banner Maxx II
✓	✗	✓	✗	✓✓	✓✓	✗	✗	✗	✗	✓✓	✓✓	✓✓



For further information contact your
ICL Technical Area Sales Manager
or visit www.icl-sf.co.uk | www.icl-sf.ie



A dual action broad spectrum systemic fungicide

Headway Benefits

- Preventative, curative and eradicant action
- Rapid uptake and movement within the plant
- Long-lasting protection

Product Characteristics

Pack size: 3 litre
Packs per outer: 4 x 3 litre
Pack coverage: 1 hectare
Contains 62.5g/L azoxystrobin,
104g/L propiconazole
MAPP No. 14396 PCS No. 03557

Application Rate

Maximum individual dose: 3 L/ha
Water volume: 250 - 1,000 L/ha
Maximum number of treatments: 4 per year

Areas of Use

- ✓ Amenity Turf (golf greens, tees, fairways, bowling greens and sportsfields)

Label Approved Diseases

- ✓ Microdochium patch
- ✓ Dollar spot
- ✓ Leaf spot
- ✓ Take-all patch
- ✓ Anthracnose

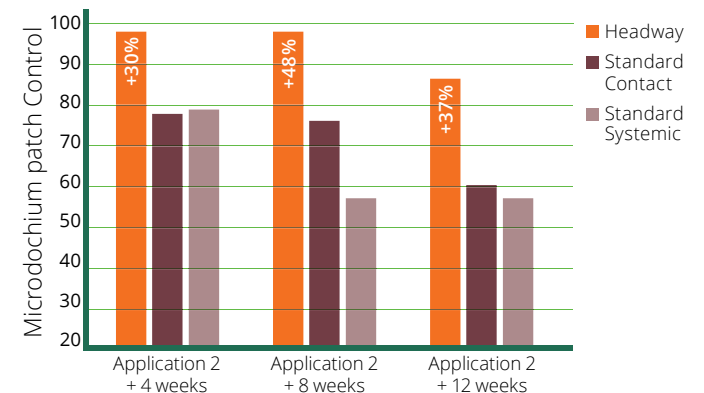
Turf
REWARDS
PRODUCT
see pages 4-5



Proven Performance

STRI trials at Bingley in Yorkshire showed Headway to be an outstandingly effective treatment for Microdochium patch, with incredibly persistent results, weeks after application. Headway delivered significantly greater levels of disease control, which lasted far longer than other fungicides.

Headway Treatment of Microdochium patch



Headway has performed outstandingly in trials, with up to 48% better disease control than the average of these comparative fungicides.

Headway achieved virtually 100% control over four weeks after application, and was still achieving over 80% control more than twelve weeks after application.



Recommended Period of Use

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

Directions For Use

1. To optimise results, use as a protectant treatment or, when a predictive assessment indicates a high risk of disease development, go to www.greencast.co.uk.
2. Avoid applications during frosty or drought conditions.
3. Do not make more than 2 consecutive applications.
4. Headway is tank-mixable with other products within the ICL range, with the exception of any silicone-based wetting agents. Advice should always be sought from your ICL Technical Area Sales Manager before any tank-mix is applied.
5. Application to young grass: can be applied after the 2nd leaf stage.
6. Mix with Colour Pro® Indicator spray pattern indicator to aid spraying, to condition water and to minimise spray drift.
7. FOR USE ONLY AS A HORTICULTURAL FUNGICIDE.

Tank-Mix Table (see pages 122 - 123 for full Tank-Mix Table)

Greenmaster Liquid							Sportsmaster WSF				Biostimulants	
High N	Spring & Summer	NK	High K	STEP Liquid	Effect Iron Fe	Ca-Booster	High N	Spring & Summer	High K	IRON	SeaMax	Vitalnova Blade
✓✓	✓✓	✓✓	✓✓	✓✓	✗	✓✓	✓✓	✗	✓✓	✗	✓✓	✓✓

Wetting Agents					PGR	Herbicides			Fungicides			
H2Pro TriSmart	H2Pro FlowSmart	H2Pro AquaSmart	H2Pro DewSmart	Qualibra	Primo Maxx II	Praxys	Jewel	Rescue	Heritage Maxx	Medallion TL	Banner Maxx II	Instrata Elite
✓✓	✗	✓✓	✗	✓✓	✓✓	✗	✗	✗	✗	✗	✗	✓✓



For further information contact your
ICL Technical Area Sales Manager
or visit www.icl-sf.co.uk | www.icl-sf.ie



An exciting NEW high-performance formulation of the specialist turf fungicide

Banner Maxx II Benefits

- Effective against Microdochium patch, Dollar spot and Anthracnose
- Fast leaf uptake
- Fast movement through the plant
- Rainfast in 15 minutes

Product Characteristics

Pack size: 1 litre & 3 litre
Packs per outer: 12 x 1 litre & 4 x 3 litre
Pack coverage: 1 hectare
Contains 162g/L propiconazole
MAPP No. 18038 PCS No. 05461

Application Rate

Maximum individual dose: 3 L/ha
Water volume: 200 - 400 L/ha
Maximum number of treatments: 2 per year

Areas of Use

- ✓ Managed Amenity Turf
- ✓ Golf Courses
- ✓ Stadia Pitches

Label Approved Diseases

- ✓ Microdochium patch
- ✓ Anthracnose
- ✓ Dollar spot



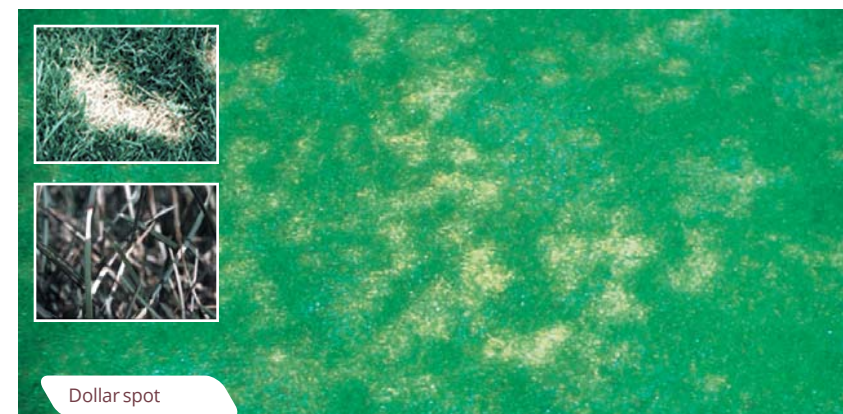
Turf
REWARDS
PRODUCT
see pages 4-5



Microdochium patch (Fusarium patch)



Anthracnose



Dollar spot



Recommended Period of Use

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

Directions For Use

1. For best results use as a preventative or during early stages of disease establishment or, when a predictive assessment indicates a risk of disease development, go to www.greencast.co.uk.
2. Approved for application using a knapsack sprayer.
3. Avoid applications during frosty or drought conditions.
4. Banner Maxx II is tank-mixable with other products within the ICL range. Advice should always be sought via your ICL Technical Representative before any tank-mix is applied.
5. Minimum 14-day interval between treatments.
6. Mix with Colour Pro® Indicator spray pattern indicator to aid spraying, to condition water and to minimise spray drift.
7. For use on managed amenity turf and amenity grassland.
8. FOR USE ONLY AS A HORTICULTURAL FUNGICIDE.

Tank-Mix Table (see pages 122 - 123 for full Tank-Mix Table)

Greenmaster Liquid							Sportsmaster WSF					Biostimulants
High N	Spring & Summer	NK	High K	STEP Liquid	Effect Iron Fe	Ca-Booster	High N	Spring & Summer	High K	IRON	SeaMax	Vitalnova Blade
✓✓	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓

Wetting Agents					PGR	Herbicides			Fungicides				
H2Pro TriSmart	H2Pro FlowSmart	H2Pro AquaSmart	H2Pro DewSmart	Qualibra	Primo Maxx II	Praxys	Jewel	Rescue	Headway	Heritage Maxx	Heritage	Medallion TL	Instrata
✓✓	✓✓	✓✓	✗	✓✓	✓	✗	✗	✗	✗	✓✓	✓	✓✓	✗



For further information contact your
ICL Technical Area Sales Manager
or visit www.icl-sf.co.uk | www.icl-sf.ie



Long-lasting systemic fungicide
with root uptake

Heritage Maxx Benefits

- Quick and efficient uptake by leaf and root to move the active ingredient to the point of infection
- Seven turf diseases on the label
- Active recycling prolongs the period of activity

Product Characteristics

Pack size: 3 litre
Packs per outer: 4 x 3 litre
Pack coverage: 1.2 hectares
Contains 95g/L azoxystrobin
MAPP No. 18246 PCS No. 03978

Application Rate

Maximum individual dose: 2.5 L/ha
Water volume: 125 - 1,000 L/ha
Maximum number of treatments: 4 per year

Areas of Use

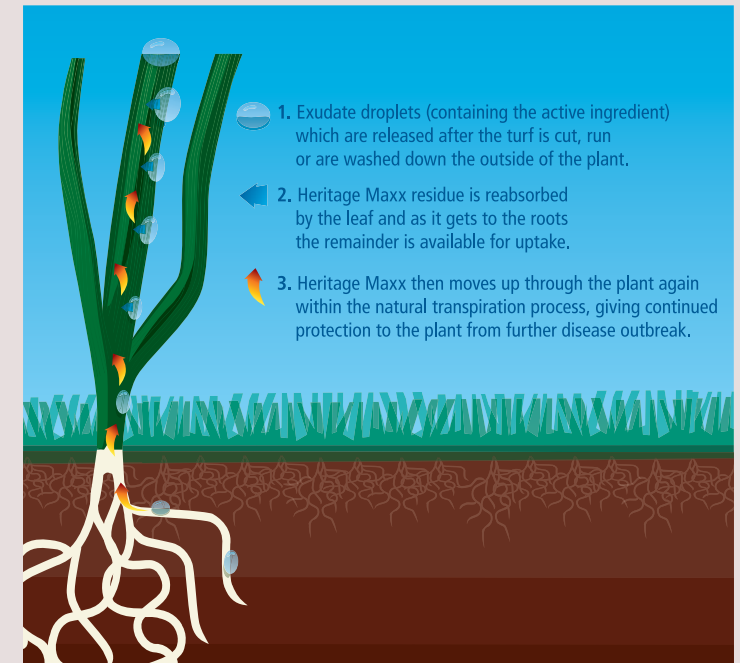
- ✓ Managed Amenity Turf

Label Approved Diseases

- ✓ Microdochium patch
- ✓ Anthracnose
- ✓ Brown patch
- ✓ Leaf spot
- ✓ Rusts
- ✓ Take-all patch
- ✓ Type 2 Fairy ring



Active recycling, cut, after cut, after cut



The Maxx formulation moves faster for quicker activity

The unique Maxx formulation has been specifically designed for turf applications. Its advantages include:

- Outstanding turf safety
- Increased and enhanced product uptake for faster effect
- Very stable in the sprayer tank
- Easy-to-use liquid formulation
- Compatible and easy-to-mix with other products

Label Approved Diseases

	Heritage Maxx	Pyraclostrobin	Trifloxystrobin
Microdochium patch	✓	✓	✓
Anthraxnose	✓	✗	✗
Brown patch	✓	✗	✗
Leaf spot / Melting out	✓	✗	✗
Rusts	✓	✗	✗
Take-all patch	✓	✗	✗
Type 2 Fairy ring	✓	✗	✗
LERAP	No LERAP	Category B restriction	Category B restriction

Recommended Period of Use

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

Directions For Use

1. To optimise best results use as preventative or during early stages of disease establishment or, when a predictive assessment indicates a risk of disease development, go to www.greencast.co.uk.
2. Avoid applications during frosty or drought conditions.
3. Heritage Maxx is tank-mixable with other products within the ICL range. Advice should always be sought via your ICL Technical Representative before any tank-mix is applied.
4. Mix with Colour Pro® Indicator spray pattern indicator to aid spraying, to condition water and to minimise spray drift.
5. For use on managed amenity turf, including fine turf and amenity grassland.
6. FOR USE ONLY AS A HORTICULTURAL FUNGICIDE.

Tank-Mix Table (see pages 122 - 123 for full Tank-Mix Table)

Greenmaster Liquid							Sportsmaster WSF					Biostimulants
High N	Spring & Summer	NK	High K	STEP Liquid	Effect Iron Fe	Ca-Booster	High N	Spring & Summer	High K	IRON	SeaMax	Vitalnova SeaMax
✓✓	✓✓	✓✓	✓✓	✓✓	✗	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓

Wetting Agents					PGR	Herbicides			Fungicides			
H2Pro TriSmart	H2Pro FlowSmart	H2Pro AquaSmart	H2Pro DewSmart	Qualibra	Primo Maxx II	Praxys	Jewel	Rescue	Headway	Medallion TL	Banner Maxx II	Instata Elite
✓✓	✓✓	✓✓	✗	✓✓	✓✓	✗	✗	✗	✗	✓	✓✓	✓✓



For further information contact your
ICL Technical Area Sales Manager
or visit www.icl-sf.co.uk | www.icl-sf.ie





High performance systemic
strobilurin fungicide

Heritage Benefits

- Seven turf diseases on the label
- Derived from naturally occurring compounds
- The only strobilurin that can be used up to 4 times per year

Product Characteristics

Pack size: 100g & 500g
Pack coverage: 2,000 & 10,000m²
Contains 500g/kg azoxystrobin
MAPP No. 13536 PCS No. 05062

Application Rate

Maximum individual dose: 0.5 kg/ha
Water volume: 125 - 1,000 L/ha
Maximum number of treatments: 4 per year

Areas of Use

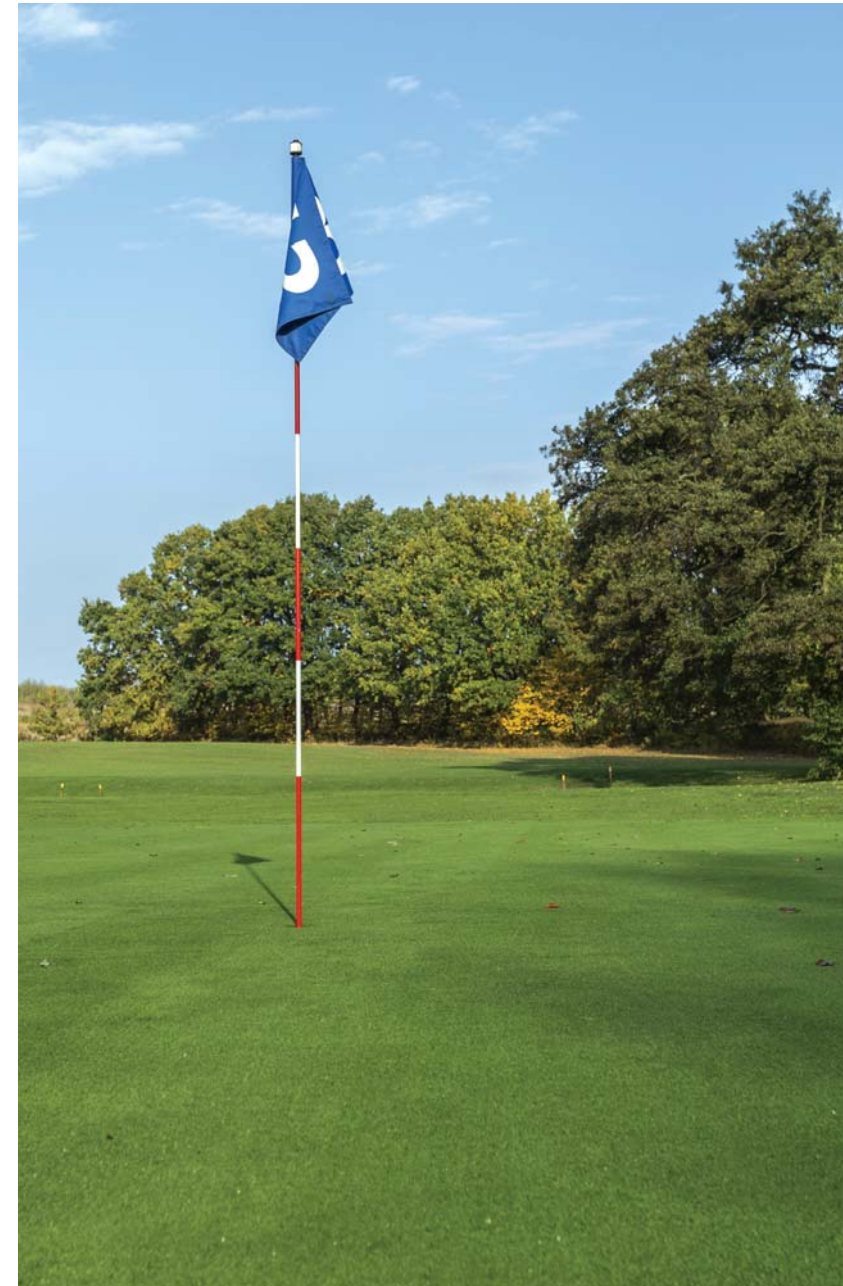
- ✓ Managed Amenity Turf

Label Approved Diseases

- ✓ Microdochium patch
- ✓ Anthracnose
- ✓ Brown patch
- ✓ Leaf spot
- ✓ Rusts
- ✓ Take-all patch
- ✓ Type 2 Fairy ring

Turf
REWARDS

PRODUCT
see pages 4-5





Recommended Period of Use (weather permitting)

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

Directions For Use

1. For best results use as protectant or during early stages of disease establishment or, when a predictive assessment indicates a risk of disease development, go to www.greencast.co.uk.
2. Apply preventatively as a drench (1,000 L/ha of water) for control of Take-all patch disease and make 2 applications 14 days apart.
3. Avoid applications during frosty or drought conditions.
4. Heritage is tank-mixable with other products within the ICL range. Advice should always be sought via your ICL Technical Representative before any tank-mix is applied.
5. Mix with Colour Pro® Indicator spray pattern indicator to aid spraying, to condition water and to minimise spray drift.
6. FOR USE ONLY AS A HORTICULTURAL FUNGICIDE.

Tank-Mix Table (see pages 122 - 123 for full Tank-Mix Table)

Greenmaster Liquid							Sportsmaster WSF					Biostimulants
High N	Spring & Summer	NK	High K	STEP Liquid	Effect Iron Fe	Ca-Booster	High N	Spring & Summer	High K	IRON	SeaMax	Vitalnova Blade
✓✓	✓✓	✓✓	✓✓	✓✓	✓✓	X	✓✓	✓✓	✓✓	✓✓	✓✓	X

Wetting Agents					PGR	Herbicides			Fungicides			
H2Pro TriSmart	H2Pro FlowSmart	H2Pro AquaSmart	H2Pro DewSmart	Qualibra	Primo Maxx II	Praxys	Jewel	Rescue	Headway	Medallion TL	Banner Maxx II	Instrata
✓✓	✓✓	✓✓	X	✓✓	✓✓	X	X	X	X	✓✓	✓✓	X



For further information contact your
ICL Technical Area Sales Manager
or visit www.icl-sf.co.uk | www.icl-sf.ie



Contact+ fungicide designed
for use in the winter

Medallion TL Benefits

- Fast-acting knockdown of Microdochium patch spores on leaf, thatch and spores
- Gives long-lasting control in winter conditions
- Ideal as a preventative disease application

Product Characteristics

Pack size: 1 litre & 3 litre
Packs per outer: 12 x 1 litre, 4 x 3 litre
Pack coverage: 3,333m², 1 hectare
Contains 125g/L fludioxonil
MAPP No. 15287 PCS No. 04188

Application Rate

Maximum individual dose: 3 L/ha
Water volume: 125 - 500 L/ha
Maximum number of treatments: 4 per year

Areas of Use

- ✓ Amenity Turf
- ✓ Amenity Grassland

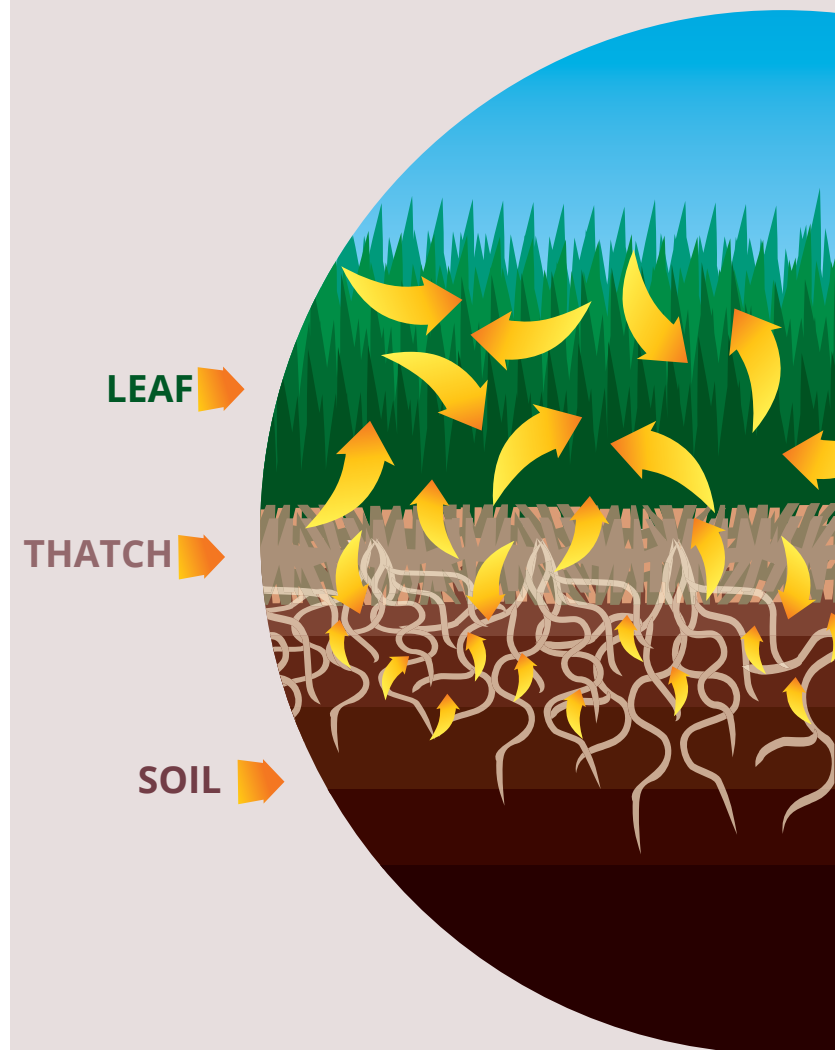
Label Approved Diseases

- ✓ Microdochium patch
- ✓ Anthracnose
- ✓ Leaf spot



Tackling Pathogen

Medallion TL tackles pathogen
on the leaf, thatch and soil



**Recommended Period of Use (weather permitting)**

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

Directions For Use

1. Begin applications when conditions are favourable for disease infection or at the very beginning of disease symptom expression.
2. Avoid applications during frosty or drought conditions.
3. Apply when soil temperature is below 7°C and when clipping yields are low.
4. Maximum number of 4 sprays per year.
5. A minimum interval of 14 days should be observed between applications.
6. Do not leave the spray liquid in the sprayer for long periods (such as during meal breaks or overnight).
7. Only make up the amount of spray required for immediate use.

Tank-Mix Table (see pages 122 - 123 for full Tank-Mix Table)

Greenmaster Liquid							Sportsmaster WSF					Biostimulants
High N	Spring & Summer	NK	High K	STEP Liquid	Effect Iron Fe	Ca-Booster	High N	Spring & Summer	High K	Iron	SeaMax	Vitalnova SeaMax
✓✓	✓✓	X	X	✓✓	✓✓*	X	✓✓	X	X	X	✓✓	✓✓

Wetting Agents					PGR	Herbicides			Fungicides			
H2Pro TriSmart	H2Pro FlowSmart	H2Pro AquaSmart	H2Pro DewSmart	Qualibra	Primo Maxx II	Praxys	Jewel	Rescue	Heritage Maxx	Headway	Banner Maxx II	Instrata
✓✓	X	✓✓	X	✓✓	✓✓	X	X	X	✓✓	X	✓✓	X

*Tank-mix compatible but do not let sprayer unagitated for more than one hour



For further information contact your
ICL Technical Area Sales Manager
or visit www.icl-sf.co.uk | www.icl-sf.ie

Nemasys[®]
J & G

Biological solutions for Chafer Grub and Leatherjacket control in turf

Nemasys Benefits

- Nemasys G contains the insect parasitic nematode *Heterohabditis bacteriophora* for the control of Chafer Grubs
- Nemasys J contains *Steinernema feltiae* for the control of Leatherjackets
- Kills larvae within 10–14 days
- Safe for turf and wildlife

Product Characteristics

Pack size: tray (250 million nematodes)
Pack coverage: 500m²
Analysis: contains insect parasitic nematodes

Application Rate

Dose rate: 1 tray per 500m²
Water volume: 50L water per 500m²
Maximum number of treatments: 1 per year

Areas of Use

- ✓ Lawns
- ✓ Golf Courses
- ✓ Amenity Turf
- ✓ Sportsfields
- ✓ Amenity Grassland



Nemasys J Controls Leatherjackets



Leatherjackets



Eggs are laid in late August and hatch within two weeks. The young start feeding immediately. Nemasys J should be applied and watered into the turf about two weeks after the adult Crane Fly have been seen. This is usually from August to September, which is the best time to apply nematodes, as the soil temperature is around 12°C.

Nemasys G Controls Chafer grubs



Chafer grubs



The eggs of the Chafer beetle hatch and begin feeding on the roots of the grass plant from July until late September. They then burrow deep into the ground, lying dormant under the soil until spring when they move to the surface and emerge as beetles, and so the cycle repeats.

Delivery

Nemasys G and Nemasys J are living products. They are dispatched directly from our production facility by overnight carrier. Once received, the transport box should be opened and refrigerated at between 2°C and 5°C for up to a maximum of four weeks.



Recommended Period of Use

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

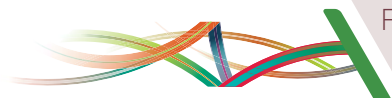
Directions For Use

1. Treatments should be applied when grubs are present and close to the soil surface, usually in August/September (during late October/November grubs move deeper in the soil making them difficult to target).
2. Thoroughly spike/aerate the affected area prior to treatment to provide channels for quick water movement down through the upper soil profile and to where the grubs are situated.
3. Pre-mix the tray in a bucket of cold water.
4. Add to a conventional spray tank or knapsack sprayer.
5. Add H₂Pro FlowSmart or H₂Pro TriSmart wetting agent to help penetration.
6. Check sprayers have no filters below 50 mesh (0.3mm) and remove if necessary. For knapsack sprayers minimum filter is 18 mesh (1.0mm).
7. Start sprayer agitation. Continue agitation throughout application.
8. Apply immediately. Do not allow the spray solution to remain in the tank longer than one hour after mixing.
9. After application the soil needs to be kept moist, either by irrigation or natural rainfall.
10. The soil temperature must be above 12°C at application and for at least two weeks afterwards.

Shot far right: This golf course has dramatic evidence of the sort of damage that can be caused to turf.

This golf course has been torn apart by birds and other wild animals searching for the larvae of Chafer grubs and Leatherjackets.

For further information contact your
ICL Technical Area Sales Manager
or visit www.icl-sf.co.uk | www.icl-sf.ie



Praxys®

High performance, highly concentrated
systemic selective weedkiller

Praxys Benefits

- Systemic uptake right down to the roots, with no regrowth
- Rapid entry and rainfast within one hour
- Lowest dosage rates and water volume of any selective herbicide available

Product Characteristics

Pack size: 2 litre
Packs per outer: 8 x 2 litre
Pack coverage: variable
Contains 144g/L fluroxypyr-meptyl,
80g/L clopyralid and 2.5g/L florasulam
MAPP No. 13912 PCS No. 03510

Application Rate

Maximum individual dose: 2 L/ha
Water volume: 200 L/ha
Maximum number of treatments: 1 per year



Areas of Use

- ✓ Managed Amenity Turf
- ✓ Amenity Grassland
- ✓ Lawns



Praxys kills tough weeds with
the three most powerful actives



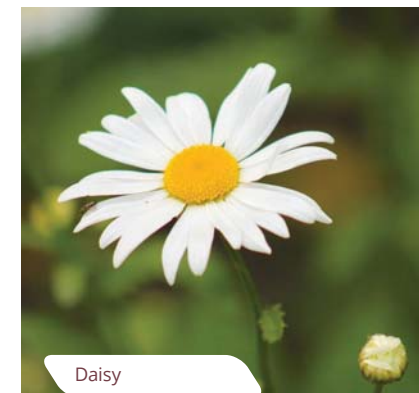
White Clover



Slender Speedwell



Black Medick



Daisy



Creeping Buttercup



Ribwort Plantain



Directions For Use

1. The ideal timing for application is when the weeds are small and actively growing.
2. Broad-leaved weeds not present at application will not be controlled.
3. An interval of 4 weeks must elapse between application of Praxys and over-seeding turf.
4. Do not use any plant material treated with Praxys for composting or mulching.
5. Do not apply if turfgrass is wet.
6. Do not apply to turf, lawns or grass areas which are under stress.
7. Do not apply if night temperatures are low, if ground frost is imminent, or in periods of prolonged cold or dry weather.
8. Take extreme care to avoid drift onto crops and non-target plants, e.g. trees, shrubs and bedding outside the target area.

Recommended Period of Use

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

Tank-Mix Table (see pages 122 - 123 for full Tank-Mix Table)

Greenmaster Liquid							Sportsmaster WSF					Biostimulants
High N	Spring & Summer	NK	High K	STEP Liquid	Effect Iron Fe	Ca-Booster	High N	Spring & Summer	High K	IRON	SeaMax	Vitalnova SeaMax
✓	✓	✓	✓	✓	✓	X	X	✓	X	X	✓	✓

Wetting Agents					PGR	Herbicides		Fungicides				
H2Pro TriSmart	H2Pro FlowSmart	H2Pro AquaSmart	H2Pro DewSmart	Qualibra	Primo Maxx II	Jewel	Rescue	Heritage Maxx	Headway	Medallion TL	Banner Maxx II	Instrata
✓	✓	✓	X	X	X	X	X	X	X	X	X	X



For further information contact your
ICL Technical Area Sales Manager
or visit www.icl-sf.co.uk | www.icl-sf.ie

Enforcer®

Herbicide for broad-leaved weeds in managed amenity turf

Enforcer Benefits

- Potent combination of 4 active ingredients
- Ideal for all sports turf areas and lawns
- Various application methods including knapsack

Product Characteristics

Pack size: 5 litre
Pack per outer: 4 x 5 litre
Contains: 70 g/l 2,4-D, 20 g/l dicamba, 70 g/l MCPA and 42 g/l mecoprop-P
MAPP no. 17274: Not available in ROI

Application Rate

Maximum individual dose: 7.5 L/ha
Maximum number of treatments: 1 per year
Latest time of application: End of September in the year of treatment
Water Volume: 1,000 L/ha
Maximum total dose: 7.5 L/ha

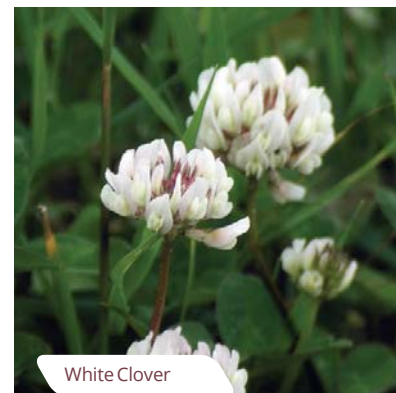
Areas of Use

- ✓ Lawns
- ✓ Managed Amenity Turf
- ✓ Golf Courses
- ✓ Sportsfields



Weeds Controlled

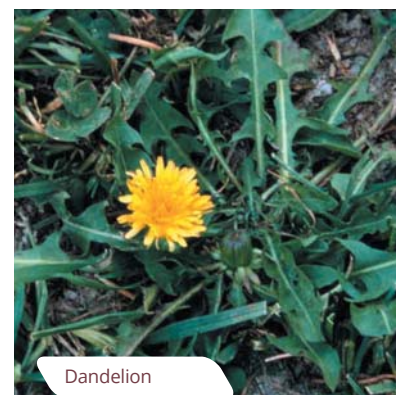
Weed	Application rate	Comments
White clover (<i>Trifolium repens</i>), daisy (<i>Bellis perennis</i>), deadnettle (<i>Lamium sp.</i>), speedwell (<i>Veronica sp.</i>), Shepherd's Purse (<i>Capsella bursa pastoris</i>) and Field Forget-me-not (<i>Myosotis arvensis</i>)	7.5	Susceptible
Dandelion (<i>Taraxacum officinale</i>), broad-leaved dock (<i>Rumex obtusifolius</i>), Self heal (<i>Prunella vulgaris</i>), creeping buttercup (<i>Ranunculus repens</i>), yarrow (<i>Achillea millefolium</i>) and corn chamomile (<i>Anthemis arvensis</i>).	7.5	Moderately susceptible



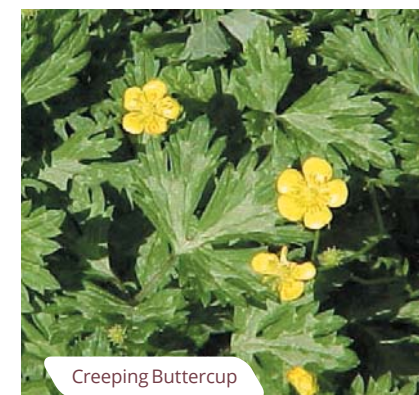
White Clover



Shepherds Purse



Dandelion



Creeping Buttercup

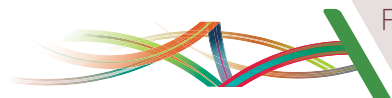


Directions For Use

1. Shake well before use.
2. Enforcer can be applied by tractor-mounted boom sprayer or by knapsack sprayer.
3. The activity of Enforcer is promoted by climatic conditions which favour photosynthesis such as warm temperatures and sunny conditions.
4. Avoid treatment during dry periods and when rain is expected within 24 hours after the treatment.
5. Do not spray to grass suffering from drought or during freezing conditions.
6. May take up to 3 weeks before weed destruction is seen. Do not re-apply if weed destruction is not seen directly after treatment.
7. For best results, apply the product at least 5 days after the last mowing and wait 7 days after application before mowing again.
8. Do not use on new grass for 6 months after establishment.
9. When renovating treated areas an interval of 6-8 weeks should elapse before re-seeding.

Recommended Period of Use

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec



For further information contact your
ICL Technical Area Sales Manager
or visit www.icl-sf.co.uk | www.icl-sf.ie



Esteron T

Low volume dual action selective herbicide
for the control of broad-leaved weeds in
managed amenity turf and domestic lawns

Esteron T Benefits

- New generation selective herbicide
- Ultra-low dose rate
- Low water rate
- Rainfast in 1 hour

Product Characteristics

Pack size: 2 litre & 5 litre
Pack coverage: 4.17 ha
Contains 300 g/L 2,4-D and 6.25 g/L florasulam
MAPP No. 17432. Not available in ROI

Application Rate

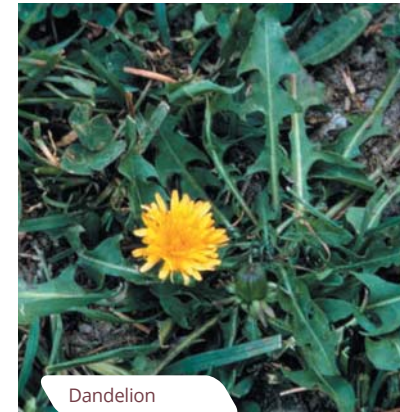
Maximum individual dose: 1.2 L/ha
Water volume: 100 - 400 L/ha
Maximum number of treatments: 1 per year



Areas of Use

- ✓ Managed Amenity Turf (including domestic lawns)
- ✓ Amenity grassland

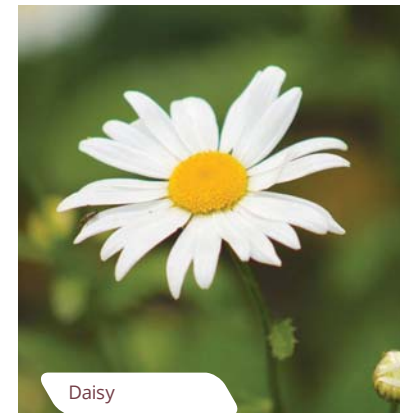
Weeds Controlled



Dandelion



White Clover



Daisy



Buttercup



Greater Plantain



Sticky Mouse-ear

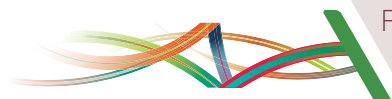


Recommended Period of Use (weather permitting)

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

Directions For Use

1. Apply when weeds are in active growth, normally between March and October when the soil is moist.
2. Do not apply in periods of drought unless irrigation is applied.
3. Do not spray when rain is imminent.
4. Do not apply if night temperatures are low, if ground frost is imminent, or in periods of prolonged cold weather.
5. Avoid mowing 3 days before and after spraying to ensure sufficient weed leaf surface is present and to allow uptake and movement of Esteron T within the weed.
6. Clippings from grass treated with Esteron T can be safely used for mulch after the third cut.
7. An interval of four weeks must elapse between application of Esteron T and re-seeding turf.
8. Ensure newly sown amenity turf has become established before treating. Turf sown in the spring or summer may be ready for spraying after about two months, but turf sown in late summer or autumn should not be sprayed until growth is resumed in the following spring, perhaps eight months after sowing turf.
9. Esteron T is of low volatility and is therefore not subject to vapour drift. Take extreme care to avoid drift onto non-target plants e.g. trees, shrubs, bedding outside the target area as this can cause severe damage.



For further information contact your
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Selective herbicide for the control of ryegrass
on golf courses and bowling greens

Rescue Benefits

- Controls Ryegrass but leaves Fescue, Poa annua and Browntop Bentgrasses unaffected
- Can improve playing quality and reduce maintenance requirements

Product Characteristics

Pack size: 1 litre
Pack coverage: 7,518 - 10,000m²
Contains 45g/L pinoxaden and 11.25g/L cloquintocet-mexyl
MAPP No. 14518 PCS No. 03682

Application Rate

Maximum individual dose:
Spring - 1.33 L/ha
Autumn - 1 L/ha
Water volume: 250 - 500 L/ha
Maximum number of treatments: 2 per year



Turf
REWARDS

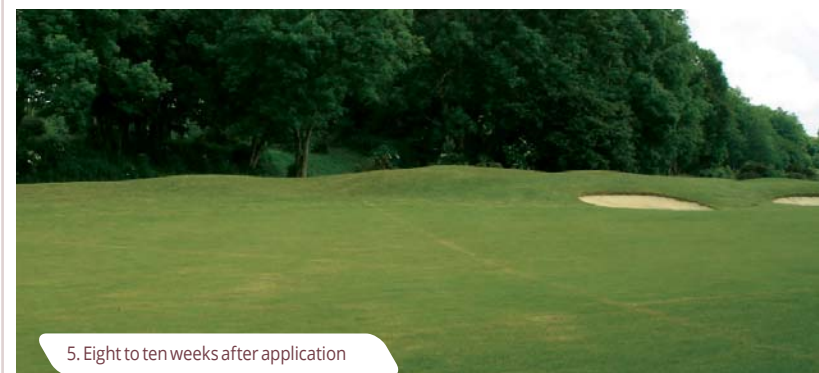
PRODUCT
see pages 4-5

Areas of Use

- ✓ Golf Greens
- ✓ Bowling Greens
- ✓ Golf Fairways
- ✓ Semi-Roughs
- ✓ Roughs



What can you expect to see?



1. Before application

Ryegrass infestations on fine turf create an uneven and unsightly surface that is difficult to maintain and is unpopular with players. The application of Rescue is a quick and effective route to restoring fine turf quality.

2. Two to three weeks after application

Ryegrass and other susceptible weed grasses start to go pale yellow and begin to die back. The timings at which effects are seen will be weather dependent; in good growing conditions results are faster, but in dry or poor conditions it will take longer for Rescue to have the desired effect.

3. Three to five weeks after application

Do the 'Rescue Rub Test'. When the treated patches have died back, rub the patch with the palm of your hand. If the treated turf surface breaks up it has passed the Rescue Rub Test. Any temporary yellowing on Bentgrasses should be outgrown. Over-seeding can take place at any time when weather and soil conditions are conducive.

4. Five to eight weeks after application

Target Ryegrass and other weed grasses will have died right back. Over-seeding should have taken place and, in good conditions, new seedlings will be starting to emerge. Apply appropriate Greenmaster liquid to encourage seedling development.

5. Eight to ten weeks after application

Ryegrass and other grass species will have been controlled. Any plants that have survived treatments will show weakened growth and susceptibility to a second Rescue application. Seedlings from over-seeding programmes should be well established.

The finished result

The removal of Ryegrasses and other unwanted coarse grasses can allow the successful re-establishment and maintenance of a high quality, fine turf playing surface.

Directions For Use

1. Best results achieved from Rescue programmes started in autumn.
2. Apply twice for optimal control.
3. Over-seeding following Rescue application can achieve faster rejuvenation of fine turf playing surfaces and minimise invasion of weed species.
4. Dense, well established patches of Ryegrass may require a programme of two or three applications to achieve full control.
5. Follow-up Rescue treatments on an annual basis may be required to control new seedling re-infestation.
6. Rescue can be applied with conventional golf course or bowling green sprayer (including knapsack).
7. Spray Rescue in 250 - 500 litres of water per hectare, ensure good coverage but avoid over-wetting.
8. Rescue should not be tank-mixed with other plant protection products.

Recommended Period of Use

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec



For further information contact your
ICL Technical Area Sales Manager
or visit www.icl-sf.co.uk | www.icl-sf.ie

Roundup[®] ProActive

Highly active Roundup formulation
for use in a wide range of areas

Roundup ProActive Benefits

- Rainfast within 1 hour for annuals and 4 hours for perennials
- Non-hazardous as classified by COSHH
- Widest range of tested tank-mixing partners
- Less risk of drift
- Superior performance in challenging conditions



Areas of Use

- ✓ Industrial
- ✓ Amenity
- ✓ Forestry
- ✓ Aquatic

Product Characteristics

Pack size: 5 litre
Packs per outer: 4 x 5 litre
Water volume: 100 - 200 L/ha
Contains 360g/L glyphosate
MAPP No. 17380
Not available in ROI



Weeds Controlled

Roundup ProActive herbicide controls most emerged grasses and broad-leaved weeds. It is important that all weeds are at the correct growth stage when treated, otherwise some re-growth may occur and this will need re-treatment.

Apply Roundup ProActive herbicide once grasses and broad-leaved weeds have emerged and they have actively-growing green leaves.

Compatibility List

Physically compatible	
Chikara	MCPA*
Dursban WG	Speedway Total
2,4,D*	Pistol (Proshield)
Frigate/T80	Stomp 400
Kerb Flo	Marker dyes

*Antagonism when used at high rates.
Do not add more than 1L/ha of MCPA or 2,4,D to 3 L/ha of RoundupProActive.

Application Rate

Rate	Equivalent dilution	Weeds controlled
3 L/ha	1:67 or 15ml per litre of water	Annual grasses, annual broad-leaved weeds
4 L/ha	1:50 or 20ml per litre of water	Arable weeds, pre-planting of trees
5 L/ha	1:40 or 25ml per litre of water	Most perennial weeds
6 L/ha	1:33 or 30ml per litre of water	Floating aquatic weeds
10 L/ha	1:20 or 50ml per litre of water	Rhododendron, Ivy, Horsetail and difficult waxy-leaved plants

How does it work?

Roundup ProActive is absorbed by the weed leaves and circulates throughout the plant, including the roots. When it reaches the growing point it intervenes with protein production and effectively starves the plant to death. In warm weather, treated weeds turn red and yellow after 7-10 days. In cold weather this can take up to 4 weeks.



Directions For Use

1. Roundup ProActive is recommended for control of annual and perennial grasses and broad-leaved weeds in non-crop areas, for cleaning up weedy ground prior to planting or sowing and for aquatic weed control. Roundup ProActive may also be used as a directed spray in ornamental plantings, orchards and for spot treating weeds in grassland. Roundup ProActive must be targeted only at weed growth on hard surfaces such as roadsides and paths (see label for details).
2. DO NOT MIX, STORE OR APPLY ROUNDUP PROBIO IN GALVANISED OR UNLINED STEEL CONTAINERS OR SPRAY TANKS.
3. DO NOT leave spray mixtures in tanks for long periods and make sure tanks are WELL VENTED.
4. Rainfast in 1 hour on annuals and Couch grasses, and in 4 hours on broad-leaved weeds and perennial grasses.
5. Do not spray onto weeds which are naturally senescent, or where growth is impaired by drought, high temperatures, a covering of dust, flooding or frost at or immediately after application, otherwise poor control may result.
6. Do not spray in windy conditions, as drift onto desired crops or vegetation can severely damage or destroy them.
7. Do not tank-mix Roundup ProActive with adjuvants, pesticides or fertilizers, except as specified in the Compatibility section.
8. Exclusion times: people, pets and wildlife need not be kept out of treated areas. It is best not to walk in areas where the spray is still wet, as transfer to other vegetation may lead to unwanted damage to other foliage. Once the spray is dry, this cannot occur.



For further information contact your
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Roundup[®] ProVantage

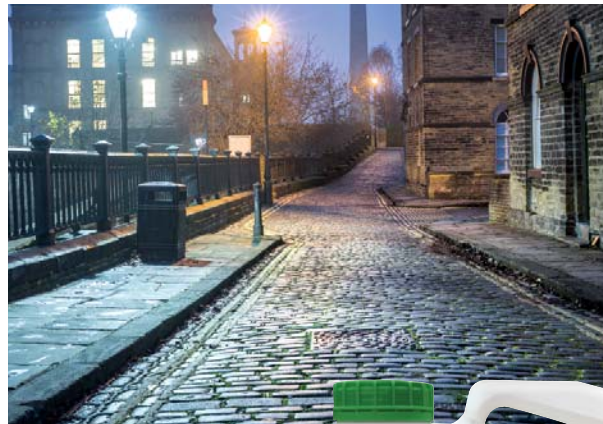
High load, clean label
premium glyphosate

Roundup ProVantage Benefits

- Rainfast in 1 hour
- Effective in all conditions
- Quick and long-lasting control of difficult perennial weeds
- Concentrated formulation for low application rate

Product Characteristics

Pack size: 5 litre
Packs per outer: 4 x 5 litre
Pack coverage: 0.63 - 1.25 hectares
Contains 450g/L glyphosate
MAPP No. 15534
Not available in ROI



Areas of Use

- ✓ Industrial
- ✓ Amenity
- ✓ Forestry
- ✓ Aquatic



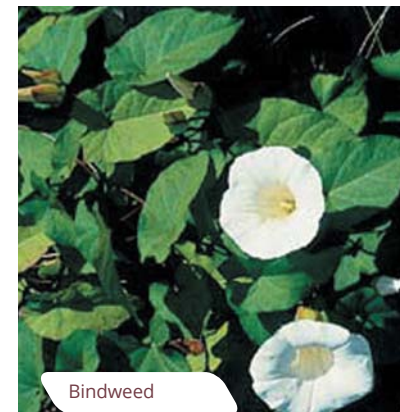
Controls Heavyweight Weeds



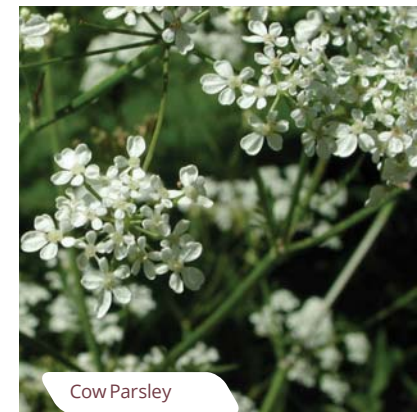
Bramble



Hogweed



Bindweed



Cow Parsley



Japanese Knotweed



White Bryony



Application Rate

Crop/situation		Maximum individual dose
Natural surfaces not intended to bear vegetation; permeable surfaces overlaying soil; hard surfaces		4.0 L/ha
Enclosed waters; open waters; land immediately adjacent to aquatic areas		4.8 L/ha
Forest	Forest nursery weed control	8.0 L/ha
	Stump application	160ml per litre water (16% solution of product in water)
	Chemical thinning (by injection)	1.6ml per 10cm diameter (or less) of tree
Amenity vegetation		4.0 L/ha
All edible crops; all non-edible crops (destruction before sowing or planting)		4.0 L/ha

Directions For Use

1. Avoid spray drift.
2. A period without rain of 6 hours is recommended but gives excellent results on annuals and Couch in 1 hour, and 4 hours on perennial weeds.
3. Use as directed to weeds which are actively growing, with enough leaf cover to absorb the product.
4. Weeds are less susceptible when growth is restricted by natural senescence or by factors such as drought or waterlogging.
5. For aquatic, forestry, weed wipe, injection and stump application, always refer to the product label or contact your ICL Technical Representative.
6. Avoid applications during frosty, waterlogged, hot or drought conditions.
7. Mix with Colour Pro spray pattern indicator to aid spraying, to condition water and to minimise spray drift.
8. For use on natural surfaces not intended to bear vegetation, permeable surfaces overlying soil and hard surfaces.
9. FOR USE ONLY AS A HORTICULTURAL/ AGRICULTURAL/INDUSTRIAL HERBICIDE.

Recommended Period of Use

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec



For further information contact your
ICL Technical Area Sales Manager
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Amenity Glyphosate XL

Cost-effective glyphosate formulation
for the control of emerged weeds

Amenity Glyphosate XL Benefits

- Cost-effective treatment of many emergent weeds
- Fully formulated with original Roundup surfactant
- Rainfast in 6 hours



Areas of Use

- ✓ Horticultural
- ✓ Industrial
- ✓ Amenity
- ✓ Forestry

Product Characteristics

Pack size: 5 litre
Packs per outer: 4 x 5 litre
Pack coverage: 0.5 - 1.0 hectare
Contains 360g/L glyphosate
MAPP No. 17997
Not available in ROI





Application Rate

Crop/situation	Maximum individual dose
Land not intended to bear crops	5 L/ha
Forestry: weed control	10 L/ha
Chemical thinning	2ml per 10cm diameter (or less) of tree
Stump application	20% solution of product in water (200ml/L)

Water volume: 80 - 250 L/ha

Recommended Period of Use

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

For further information contact your
ICL Technical Area Sales Manager
or visit www.icl-sf.co.uk | www.icl-sf.ie





Finale[®]
150

Fast-acting total herbicide, an alternative
for hard surface weed control

Finale 150 Benefits

- Rapid knockdown – 4 days compared to 7 – 10 days for glyphosate
- Excellent control of *Equisetum arvense* (Field Horsetail)
- On label approval for hard surfaces
- Can be used for preparing sports turf for line marking

Product Characteristics

Pack size: 1 litre & 5 litre
Pack coverage: 1 – 1.66 hectares
Contains: 150 g/L (13.52% w/w)
glufosinate-ammonium
MAPP No. 14518 PCS No. 03682

Application Rate

Maximum individual dose: 5 L/ha
Water volume: 200 – 400 L/ha
Maximum number of treatments: 2 per year

Areas of Use

- ✓ Managed amenity turf (line marking preparation)
- ✓ Natural surfaces not intended to bear vegetation
- ✓ Permeable surfaces over-laying soils and hard surfaces.



Field horsetail (*Equisetum arvense*) trials



Untreated control area after 21 days



Finale 150 treated control area after 21 days

Bayer have been running trials on the control of field horsetail (*Equisetum arvense*). Finale 150 was tested in two different settings – on a natural surface not intended to bear vegetation with a long established field horsetail issue and on a paved surface which was also heavily infested with field horsetail.

The trials compared the efficacy of a 360g/L formulation of glyphosate, a tank mix of a 360g/L of glyphosate and Finale 150, Finale 150 as a single application, and Finale 150 with two applications 28 days apart.

The results exceeded all expectations – Finale 150 was the only product to have an immediate impact, visible results were seen after just 48 hours versus up to 14 days for glyphosate. Whilst control of the field horsetail was rapidly achieved with just one application, it was found that the best levels of control were achieved by making two applications of Finale 150, 28 days apart.

Application Equipment	Vehicle-mounted Hydraulic Sprayer		Knapsack Sprayer	
Weed problem	Rate per Hectare	Water per Hectare	Rate per 100m ²	Water per 100m ²
Seedlings of all species. Established annual weeds and grasses as specified in the 'weeds controlled' section on the label	3 litres	200-400 litres	30 ml	4.5 litres
Established annual and perennial weeds and grasses as specified in the 'weeds controlled' section on the label	5 litres	200-400 litres	50 ml	4.5 litres

Line marking Application equipment	Line machine with 7.5cm swath		
Type of line	Finale® 150	Water	Coverage in linear metres
To reinforce existing lines (FINALE® 150, 3L/ha)	30 ml 120 ml	4 litres 16 litres	1333 m 5332 m
To create new lines (FINALE® 150, 5L/ha)	50 ml 200 ml	4 litres 16 litres	1333 m 5332 m

Recommended Period of Use

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec



For further information contact your
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icade®

For the control of invasive
and tough woody weeds

Icade Benefits

- Outstanding levels of translocation gets Icade deep into roots of the weeds
- Rainfast in 1 hour
- Safe to grasses
- Outstanding levels of translocation gets Icade deep into the roots of weeds
- Very low amounts of active ingredients
- Virtually no odour

Product Characteristics

Pack size: 1 litre
Packs per outer: 10 x 1 litre
Contains 12g/L aminopyralid and
120g/L triclopyr
MAPP No. 16182 PCS No. 04249

Application Rate

Broadcast application:
Apply at 3L/ha for control of Rosebay
Willowherb. Apply at 4L/ha for control of
Bramble, Common Mugwort, Common
Nettle, Creeping Thistle and Giant Hogweed.
Localised spot application:
Apply 15ml in 10L of water for the control
of Bramble, Buddleia and Gorse. Apply 20ml
in 20L of water for the control of Japanese
Knotweed and Broom.

Areas of Use

- ✓ Industrial
- ✓ Amenity Grassland



Icade quickly translocates
throughout the target weed



Directions For Use

1. Apply Icade to actively growing weeds with a dry leaf.
2. Spray Icade to thoroughly wet the leaves up to the point of run off.
3. Ensure good spray coverage of the whole weed.
4. Spray to avoid drift.
5. Allow at least 1 hour before any rainfall.
6. Only mix enough spray for the job in hand.
7. DO NOT USE on airfields.
8. DO NOT USE on land that will be grazed by livestock.
9. DO NOT USE on land within one year of sowing seed.
10. DO NOT USE on land where the vegetation will be cut for animal feed, fodder or bedding, nor for composting or mulching within one calendar year of treatment.
11. Not approved for forestry/woodlands/airfields/golf courses.

Users must have received adequate instruction, training and guidance in the safe use of the product, and must take all reasonable precautions to protect the health of human beings, creatures and plants, and safeguard the environment.

Recommended Period of Use

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec



For further information contact your
ICL Technical Area Sales Manager
or visit www.icl-sf.co.uk | www.icl-sf.ie

Proshield®

Pre and post-emergent
non-selective total herbicide

Proshield Benefits

- Residual barrier prevention against weed germination
- Rainfast within 1 hour
- For use on gravel and soft surfaces

Product Characteristics

Pack size: 5 litre
Packs per outer: 4 x 5 litre
Pack coverage: 1.1 hectare
Contains 250g/L glyphosate and
40g/L diflufenican
MAPP No. 17525
Not available in ROI

Application Rate

Maximum individual dose: 4.5 L/ha
Water volume: 200 - 400 L/ha
Maximum number of treatments: 1 per year
(at latest by end September)



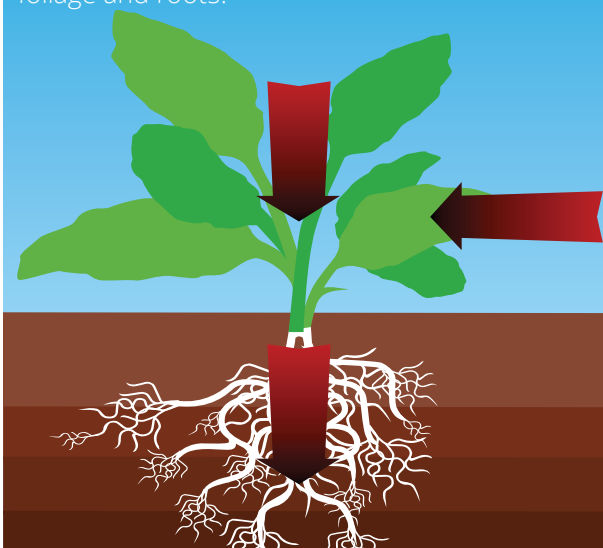
Areas of Use

- ✓ Industrial
- ✓ Amenity

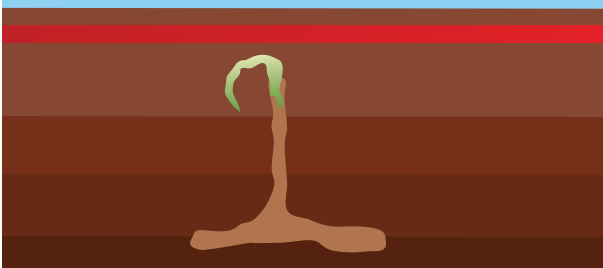


How it works

Glyphosate circulates throughout the entire plant causing rapid knockdown and kill of foliage and roots.



Diflufenican adheres to the soil surface to form a chemical barrier preventing further weed seed germination.



Directions For Use

1. For use on gravel and soft surfaces.
2. One application kills weeds rapidly.
3. Rainfast within 1 hour.
4. The product is applied post-emergence to control a wide range of annual and perennial broad-leaved weeds and grasses on porous surfaces on land not intended to bear vegetation.
5. Applications should not be made to plants growing under stress conditions, such as drought or water-logging, as reduced levels of control may result.
6. Do not spray in windy weather.
7. Do not add any wetting agent or adjuvant oil, as this may result in reduced activity.
8. FOR USE ONLY AS A HORTICULTURAL/ INDUSTRIAL HERBICIDE.

Recommended Period of Use

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec



For further information contact your
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or visit www.icl-sf.co.uk | www.icl-sf.ie



Ecoplug Max

Treatment for tree stumps to
minimise root and stump sprouting

Ecoplug Max Benefits

- 95 - 100% efficacy on treated stumps, preventing re-growth
- 100% selective with no effect on surrounding trees or vegetation
- Reduces the interval between clearing by 50 - 100%
- Supports requirements of the sustainable use directive to minimise use of pesticides

Areas of Use

- ✓ Industrial
- ✓ Forestry



Product Characteristics

Pack size: 100 x 300mg plugs
Contains 300mg granular glyphosate
MAPP No. 17581
Not available in ROI

How to Use



Directions For Use

1. Cut the tree as close to the ground as possible.
2. For optimum results, treat within 2 days of cutting; however, stumps can be treated up to 1 month after felling, but translocation of active ingredient may be slower.
3. Measure the diameter of the cut face and calculate how many plugs to use from the application rate table.
4. Drill a hole in the stump; the hole should be 25 - 30mm deep and 13mm wide using an adapted drill to control the depth.
5. Space the holes no more than 6 - 8cm apart around the entire circumference of the stump.
6. Drill as close to the bark as possible, because the tree's transport system is directly adjacent to the bark.
7. Insert Ecoplug Max plugs into each hole with the thicker end protruding outwards.
8. Using a hammer, drive the Ecoplug Max plug in completely so that its head seals the drilled hole, causing the plug to release the herbicide.
9. For best results, stump treatment should be done not more than 2 days after felling.
10. Do not use for any other purpose than treatment of freshly cut tree stumps.
11. FOR USE ONLY AS AN INDUSTRIAL/FORESTRY HERBICIDE.



Application Rate

	Stump diameter in cm	Number of Ecoplugs
GROUP 1 Alder, Aspen, Beech, Birch, Elm, Lime, Maple, Mountain Ash, Willow	3-6cm	1
	6-10cm	2
	10-14cm	3
	14-18cm	4
	>20cm	6-8cm between plugs
	Each buttress root	1
GROUP 2 Ash, Cherry, Bird Cherry, Oak	3-6cm	2
	6-10cm	3
	10-14cm	4
	14-18cm	6
	>20cm	5-6cm between plugs
	Each buttress root	2
GROUP 3 Poplar, Rhododendron, Elder, Tree of Heaven	3-6cm	2
	6-10cm	4
	10-14cm	6
	14-18cm	8
	>20cm	3-4cm between plugs
	Each buttress root	2

Recommended Period of Use

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

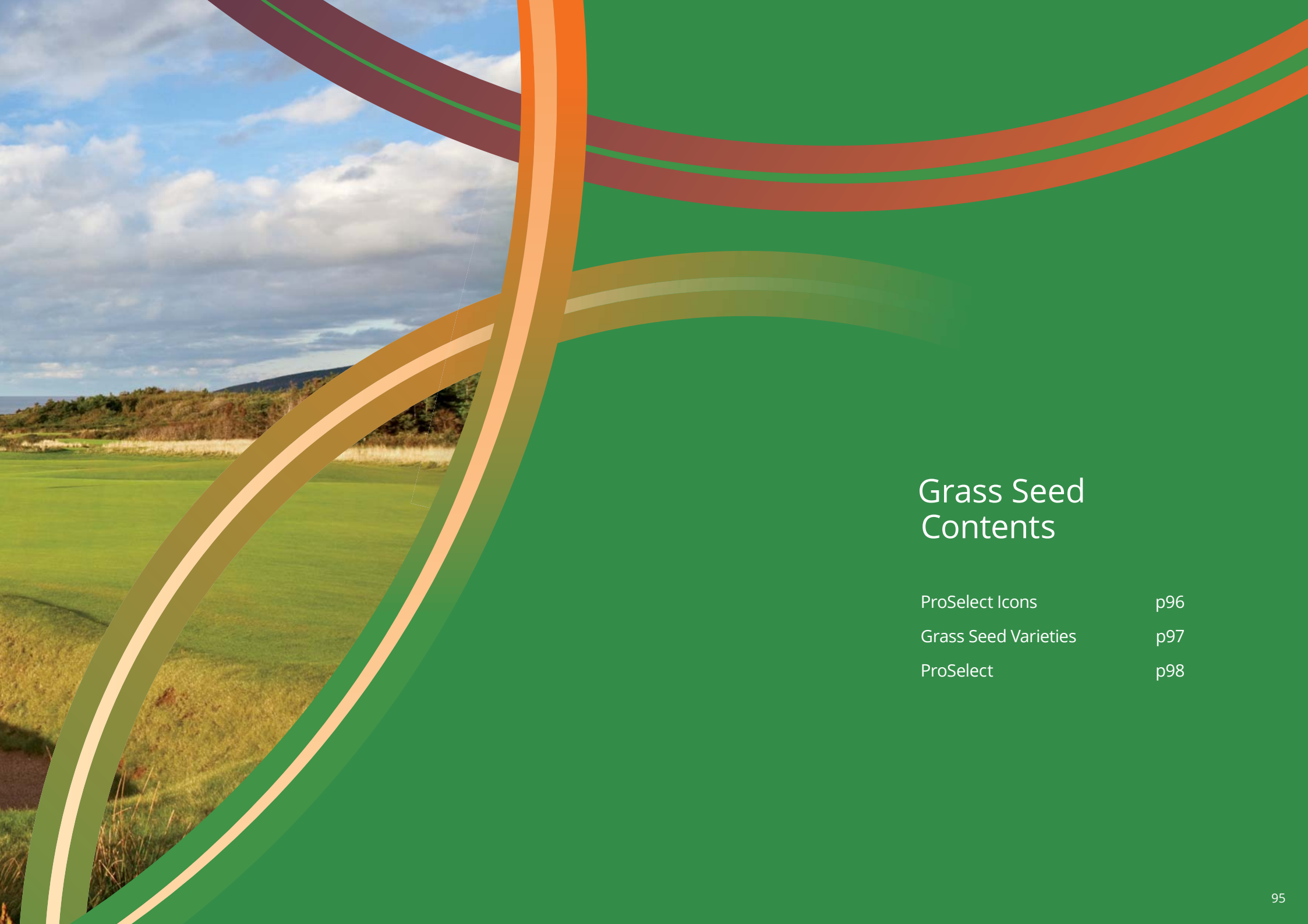
For further information contact your
ICL Technical Area Sales Manager
or visit www.icl-sf.co.uk | www.icl-sf.ie

Grass Seed

ProSelect is our range of turfgrass seed blends for golf courses, sports fields, turf growers and landscape contractors.

Varieties in the range are developed through extensive breeding selection by ICL and our International seed partners to bring the most up-to-date material to the market. This synergy provides continuous blend development and improvement of our mixes in the turf and amenity sector.





Grass Seed Contents

ProSelect Icons	p96
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ProSelect	p98

Grass Seed

What the icons mean:

Wear Tolerance

Able to withstand intensive wear with good recovery. Suitable for sports stadia, training grounds and any areas under intensive use.



Drought Tolerance

Tolerance to high temperatures and drought. Suitable for areas with limited water resources or where high temperatures restrict the range of species that can be grown.



Cold Tolerance

Low temperature germination and growth. Suitable for early and late season conditions where low ground/air temperatures are experienced.



Low Maintenance

Reduced mowing frequency with low maintenance requirements. This includes reduced clipping yield, low growth rates and reduced mowing requirements.



Shade Tolerance

Performs well in low light levels. Suitable in stadia, building surrounds or in natural shade created by trees.



Salt Tolerance

Tolerance of salinity. Suitable for coastal locations with naturally higher salinity and facilities using irrigation drawn from saline sources.



Brown Patch Tolerance

Rhizoctonia (Brown patch) can affect most cool season turf grasses. This icon indicates the varieties and blends with improved resistance.



Disease Tolerance

Higher natural tolerance to the common turf diseases.



Visual Merit

An overall combination of grass sward quality taking into account year-round colour, shoot density, disease resistance and leaf texture.



Sod (Turf) Quality

Blends that are free from contamination from other grasses and weeds.



Zip-Seed

Zip-Seed provides emerging seedlings with a complete package of nutritional components that improve plant health.



By maximising establishment success rates, you are able to improve the qualities of the sward to help improve the turf performance. Newer grasses, compared to invading weed grasses such as *Poa annua*, are far more efficient in taking up nutrients so there's far less nutritional wastage.

Zip-Seed is a non-phytotoxic seed treatment including a colourant, making it easily visible, in bag and in use.

The Zip-Seed treatment is particularly beneficial at the start or end of the season, when temperatures are lower or water is restricted.

ICL has developed an easy reference system using icons to assist turf managers when choosing the appropriate blends and varieties for their own situations.

No matter what the demands: wear, heat, salinity, shade or diseases, ICL has the solution.

Seed purity and performance are the foundations of integrated turf management programmes.


















































Grass Seed Varieties

We are also able to offer a comprehensive range of quality grass seed varieties for golf, sports, landscaping and amenity turf.

Golf course managers can produce beautiful, fast, true greens using creeping bent grass, browntop bent or fescue. Complement your greens, add colour and contrast, and enhance all-round playability with a range of high quality fine turf varieties. You can also choose varieties that are suitable for maintaining strong, healthy turf on fairways, tees, rough and semi-rough areas on all types of golf courses.

Perennial ryegrass is the choice of sports ground managers, but it is increasingly used on the golf course where the durability of the sward it produces benefits areas that are under stress from intensive wear.

Our perennial ryegrass varieties combine outstanding aesthetic appearance with strength and durability to produce surfaces that withstand the demands of intensive playing schedules.

Variety	Species	Icons	Areas of Use/Attributes	Sowing Rate	Mowing Height
Penn A1	Creeping Bent	  	✓ GOLF - GREENS ✓ FINE TURF	5-8g/m ²	 3-7mm
Riptide	Creeping Bent	  	✓ GOLF - GREENS ✓ FINE TURF	5-8g/m ²	 3-7mm
Eurocordus	Perennial Ryegrass	  	✓ FOOTBALL ✓ RUGBY ✓ LAWNS ✓ WINTER SPORTS ✓ RACECOURSES	25-35g/m ²	 10-25mm
Carnac	Perennial Ryegrass	  	✓ SPORTS ✓ LAWNS	25-35g/m ²	 10-25mm
Memorial	Creeping Bent	 	✓ GOLF - GREENS ✓ FINE TURF	5-8g/m ²	 3-7mm
Eurocrown	Chewings Fescue	  	✓ GOLF-GREENS ✓ TEES ✓ FAIRWAYS	20-30g/m ²	 5-25mm
Heritage	Browntop Bent	 	✓ GOLF - GREENS	5-8g/m ²	 3-7mm
Cathrine	Slender Creeping Red Fescue	  	✓ GOLF - GREENS, TEES, FAIRWAYS ✓ FINE TURF ✓ LAWNS	20-30g/m ²	 5-25mm
Beacon	Hard Fescue	  	✓ GOLF - ROUGH, SEMI-ROUGH ✓ LANDSCAPING ✓ LAWNS	20-30g/m ²	Annual harvest
Ryder	Strong Creeping Red Fescue	  	✓ GOLF - ROUGH, SEMI-ROUGH ✓ LANDSCAPING ✓ LAWNS	20-30g/m ²	 >25mm
Eurosport	Perennial Ryegrass	  	✓ DUAL PURPOSE SPORTS ✓ FOOTBALL ✓ RUGBY ✓ LAWNS ✓ WINTER SPORTS ✓ RACECOURSES	25-35g/m ²	 25mm
Torsion TRT	Perennial Ryegrass	  	✓ FOOTBALL ✓ RUGBY ✓ LAWNS ✓ WINTER SPORTS ✓ RACECOURSES	25-35g/m ²	 10-25mm
Enigma	Smooth-stalked Meadow-grass	  	✓ GOLF - ✓ TEES ✓ FAIRWAYS ✓ WINTER SPORTS LAWNS	15-25g/m ²	 15-25mm

For further information contact your
ICL Technical Area Sales Manager
or visit www.icl-sf.co.uk | www.icl-sf.ie

ProSelect®

Our range of quality turfgrass seed blends

ProSelect is our range of turfgrass seed blends for golf courses, sportsfields, turf growers and landscape contractors. Varieties in our range of grass seeds have been developed through an extensive selection by ICL and our international seed partners

ProSelect Benefits

- Developed through extensive trial programmes
- Individual varieties to suit turf requirements
- Each blend contains highly rated varieties

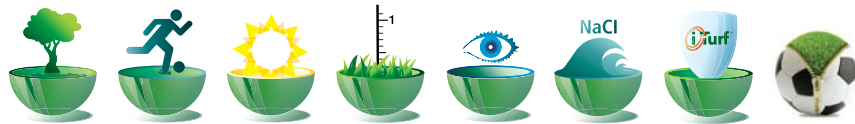
Areas of Use

See table for individual products area of use.



The Complete ProSelect Range

Product Name	Icons	Pack Sizes (kg)	Mowing Height
ProSelect 1 Premium Pitch All Rye		20	25mm
ProSelect 2 Tees/Fairways/ Outfields with Rye		25	10-25mm
ProSelect 3 Fairway Fescue		25	10-25mm
ProSelect 4 Greens 80/20		25	7mm
ProSelect 5 Fescue Greens		25	3-7mm
ProSelect 6 Fine Fescue with Rye Blend		25	10-25mm
ProSelect 7 Sport		25	25mm
ProSelect 8 All Bent		25	3-5mm
ProSelect 9 Creeping Bent		25	3-7mm
ProSelect 10 Browntop Bent		11.34	3-7mm



Product Notes	Sowing Recommendations	Varieties	Areas of Use
Establishes a dense, hard-wearing blend of perennial ryegrasses, offering top performance for high quality stadia, sports fields and racecourses. Contains Zip-Seed treatment to help optimise germination and establishment rates.	New sowing: 35 - 50g/m ² Overseeding: 20 - 35g/m ²	100% Perennial ryegrass • Shorty • Eurocordus • Carnac	✓ STADIUM PITCHES ✓ SPORTSFIELDS ✓ TEES/ SURROUNDS ✓ RACECOURSES
A fescue and ryegrass blend that produces a fine, dense and wear-tolerant sward with excellent visual merit. With strong divot recovery delivered by Torsion perennial ryegrass and Enigma SSMG and low vertical growth. It is an ideal, sustainable mixture	New sowing: 25 - 35g/m ² Overseeding: 15 - 25g/m ²	50% Perennial ryegrass • Torsion/Groundforce 20% Slender creeping red fescue • Cathrine 20% Chewings fescue • Eurocrown 10% Smooth stalked meadow grass • Enigma	✓ TEES ✓ FAIRWAYS ✓ OUTFIELDS ✓ HARD-WEARING LAWNS
Our premium fairway mixture. Developed for situations requiring fine fescues and high shoot density. Combines good drought and salt tolerance with superior disease resistance.	New sowing: 25 - 35g/m ² Overseeding: 15 - 25g/m ²	30% Slender creeping red fescue • Cathrine 30% Chewings fescue • Eurocrown 40% Strong creeping red fescue • Ryder	✓ TEES ✓ FAIRWAYS ✓ OUTFIELDS ✓ FINE LAWNS ✓ LANDSCAPING
A classic 80/20 seed mixture for establishing, renovating and transitioning fine turf. This blend of fescue/bent will produce beautiful dense turf which can be mown as low as 4mm.	New sowing: 25 - 35g/m ² Overseeding: 15 - 25g/m ²	40% Slender creeping red fescue • Cathrine 40% Chewings fescue • Eurocrown 20% Browntop bent • Heritage	✓ GOLF GREENS ✓ BOWLING GREENS ✓ FINE LAWNS ✓ CROQUET LAWNS
An all-purpose seed mixture containing Torsion, the self-repairing Perennial ryegrass created for golf tees, fairways, outfield and landscaping. This fine-leaved blend establishes quickly, offers good disease resistance and maintains its medium green colour throughout the year. Containing Torsion, the self-repairing Perennial ryegrass.	New sowing: 25 - 35g/m ² Overseeding: 15 - 25g/m ²	50% Slender creeping red fescue • Cathrine 25% Chewings fescue • Eurocrown	✓ GOLF GREENS ✓ BOWLING GREENS ✓ FINE LAWNS ✓ CROQUET LAWNS
An all-purpose seed mixture containing Torsion, the self-repairing Perennial ryegrass created for golf tees, fairways, outfield and landscaping. This fine-leaved blend establishes quickly, offers good disease resistance and maintains its medium green colour throughout the year. Containing Torsion, the self-repairing Perennial ryegrass.	New sowing: 35 - 50g/m ² Overseeding: 20 - 35g/m ²	15% Slender creeping red fescue • Cathrine 15% Chewings fescue • Eurocrown 20% Strong creeping red fescue • Ryder 50% Perennial ryegrass • Torsion • Groundforce	✓ ALL PURPOSE ✓ TEES ✓ FAIRWAYS ✓ OUTFIELDS ✓ LAWNS ✓ LANDSCAPING
A hard-wearing seed mixture designed for municipal sports fields. Ideal for both new establishment and renovations. this blend has a wide range of attributes, including rapid germination, excellent disease resistance and medium green colour aspect.	New sowing: 35 - 50g/m ² Overseeding: 20 - 35g/m ²	80% Perennial ryegrass • Eurocordus • Eurosport-Carnac 20% Smooth stalked meadow grass • Enigma	✓ FOOTBALL ✓ RUGBY ✓ LAWNS ✓ LANDSCAPING
A triple variety Agrostis capillaris blend, designed for overseeding golf and bowling greens. Each variety offers individual strengths but when combined, they form a highly competitive fine turf surface.	New sowing: 8g/m ² Overseeding: 5g/m ²	100% Browntop bent • Jorvik • Manor • Troy	✓ GOLF GREENS ✓ BOWLING GREENS
Riptide is the most recent introduction to the ICL bent grass portfolio. Any greenkeeper wishing to work with a top performing creeping bent will not be disappointed. Riptide is a truly all-round performing creeping bent grass.	New sowing: 8g/m ² Overseeding: 5g/m ²	100% Creeping bent grass • Riptide	✓ GOLF GREENS
Heritage is a new Browntop bent introduction to the STRI list and the ICL bent grass portfolio. Heritage offers high performance at low inputs. Excellent fusarium resistance combined with superior seed quality make Heritage an excellent choice for any greenkeeper.	New sowing: 8g/m ² Overseeding: 5g/m ²	100% Browntop bent • Heritage	✓ GOLF GREENS

Speciality Products

Our speciality products are designed to help you manage areas of landscaping, including tree and shrub plantings. They help create beautiful water features and assist in the effective application of spray treatments.





Speciality Products Contents

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Ranger®

Cleaning agent for use on
hard surfaces

Ranger is a Hard Surface Cleaner for use on all hard surfaces including: concrete, asphalt, tarmac, block paving, artificial sports surfaces and any hard surface areas (except memorial marble/slate).

Ranger Benefits

- Cleans and removes algae, slimes and lichens
- Reduces the risk of slippery surfaces
- Low application rates
- Economical to use

Product Characteristics

Type: Liquid
Pack size: 1 litre & 5 litre
Pack coverage: 500m²
Contains: dodecyl dimethyl ammonium chloride, as well as a blend of organic acid and surfactants.
HSE Number: 10045

Application Rate

Application rate: 1 litre treats 100m²
Water Volume: 20 litres water per litre of product

Areas of Use

- ✓ Concrete
- ✓ Asphalt
- ✓ Tarmac
- ✓ Block Paving
- ✓ Artificial Sports Surfaces
- ✓ All Hard Surfaces
(except marble and slate)

Recommended Period of Use

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

Contact
www.icl-sf.co.uk
www.icl-sf.ie

pHixer

Specialist sprayer water conditioner
with a built in pH colour indicator

The quality of the water used in spray solutions may have a significant impact on the performance of the pesticide being used. pHixer is a specialist water conditioner that adjusts spray tank water to an optimum pH level and contains an indicator dye which turns pink when the water has achieved the ideal pH range.

pHixer Benefits

- Reduces the negative impact of hard water on spray treatments
- Treats water with high salinity
- Especially useful for herbicide, fungicide or foliar feed treatments in hard water areas
- Water turns pink when at the optimum pH level



Product Characteristics

Pack size: 5 litre
Pack coverage: Variable

Application Rate

Application Rate: Variable
Water Volume: Variable

Areas of Use

- ✓ Use whenever needed to optimise the condition of spray tank water in order to minimize the potential negative impact of dissolved carbonates on pesticide treatments.



- Hard to very hard water area
- Medium to moderately hard water area
- Soft to moderately soft water area

Contact
www.icl-sf.co.uk
www.icl-sf.ie

Sp0tless

Spray tank cleaning agent and
general purpose cleaner

Sp0tless is a highly formulated cleaning agent for the cleaning and decontamination of spraying equipment. It is especially effective at clearing sticky formulations.

Sp0tless Benefits

- Maintains the effectiveness of spray equipment
- Decontaminates sprayer after use
- It is especially effective at clearing sticky formulations (sulfonyleurea (Group B) and carfentrazone-ethyl (Group G) herbicides)

Product Characteristics

Pack size: 5 litre
Packs per outer: 4 x 5 litre

Application Rate

General Purpose Cleaning:
Use 250 ml in 100L of water

For decontamination of spray tank
and cleaning of sticky formulations
(sulfonyleurea (Group B) and
carfentrazone-ethyl (Group G) herbicides):
Use 500 ml per 100 litres of water

Areas of Use

- ✓ Can be used with all spray applications



Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

Contact
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ColourPro Indicator

Advanced spray pattern indicator to assist spraying and minimize spray drift

Colour Pro® Indicator is an advanced spray pattern indicator formulated to provide the optimum conditions for the most accurate application of liquid sprays to turf and bare ground.

Colour Pro® Indicator Benefits

- Premium blue indicator
- Low-staining formulation
- Contains anti-drift agent
- Sequestering agent to prevent lock up

Product Characteristics

Pack size: 1 litre
Packs per outer: 6 x 1 litre

Application Rate

1 - 2.5 litres Colour Pro® Indicator in
1,000 litres of water

Areas of Use

- ✓ Can be used with all spray applications



Recommended Period of Use

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

Contact
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Speedway[®] Total

A blend of surfactants and spreaders that enhances total herbicidal activity and uptake.

Speedway Total is a spray adjuvant that contains a blend of surfactants and spreaders. It is designed to enhance the effect of glyphosate and other total and/or non-selective herbicide treatments.

Speedway Benefits

- Adjuvant to enhance total herbicide treatments
- Improves the speed of herbicide kill
- Enhances the uptake of herbicide to help control of difficult weeds
- Wide range of fields of use*

Product Characteristics

Pack size: 5 litre
Packs per outer: 4 x 5 litre
Application rate: Up to 2% v/v*
Pack Coverage: Varies depending on dilution rate
Contains: 37.0 % w/w alkoxyated alcohols and 41.0 % w/w alkoxyated alcohols
ADJ No: 0820
PCS No: 92459



* See our website for full details.

syngenta
XC Turf Nozzles

Sprayer nozzles designed for accurate application and drift reduction.

The Syngenta XC Turf Nozzles have been specifically designed for use on golf courses and in amenity turf settings. They provide even spray distribution, improved leaf coverage and they greatly reduce drift to achieve more effective spray treatments.

XC Turf Nozzles Benefits

- Even spray distribution even on undulating ground
- Air induction technology reduces drift
- More available spray days
- Designed for low rate applications

Product Characteristics

Pack size: 13 Nozzles per pack

Technical Specification

	Foliar XC 025	Foliar XC 04	Soil XC 08
Orifice design	XC 110°	XC 127°	XC 127°
Backward inclination	6.5°	4.5°	9.0°
Size	025	04	08
Operating speed	3 - 4km/hr	6 - 8km/hr	6 - 8km/hr
Optimum nozzle height	0.5m	0.5m	0.5m
Operating pressure	2 - 4 ba	2 - 4 bar	2 - 4 bar
Optimum pressure	2.5 bar	2.5 bar	2.5 bar
Typical spray volumes L/ha	220 - 400	220 - 400	500 - 600

Which XC nozzle?

Nozzle	Products	Target
Foliar XC 025 or 04	Primo Maxx II, Headway, Banner Maxx II, Instrata, Heritage Maxx, Heritage, Medallion TL	Leaf
Soil XC 08	Qualibra, Heritage Maxx, Heritage	ROOTZONE



Contact
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ProCrystal®

For eco-friendly algae control
in slow-moving water or lakes/ponds

ProCrystal is designed to control swimming or floating unicellular and filamentous algae found in ponds or enclosed expanses of water.

These algae develop in nutrient rich waters and are the main cause of oxygen depletion of the water following their decay. Apart from the aesthetic unpleasantness caused, they create a physical obstacle to activities such as irrigation, water sports, fishing or fish farming.

ProCrystal Benefits

- Improves the clarity of water within days
- Restores the natural balance of the target environment
- Available in hydrosoluble single-dose sachets for ease of application
- Keeps irrigation ponds free from algae

Product Characteristics

Pack size: 454g water-soluble sachets
Packs per outer: Nine sachets in one bucket
Pack coverage: Variable
Analysis: Inert powder inoculated by 6 strains of class 1 bacteria

Areas of Use

- ✓ Lakes
- ✓ Ponds



Scatter the water-soluble sachets uniformly over target area



0 days after treatment with ProCrystal



5 days after treatment with ProCrystal



14-21 days after treatment with ProCrystal

Mode of Action

ProCrystal quickly consumes and degrades the excess nitrogen (nitrates and ammoniacal nitrogen) and phosphates that algae feed on to develop. The algae die swiftly after treatment by being deprived of the nourishment essential to their development.

Treatment Period

It is preferable to apply ProCrystal when algae start to develop or when conditions are suitable for their proliferation, generally from spring to the end of summer, and even early autumn.

Conditions for Use

Once applied, ProCrystal rapidly spreads throughout the volume of water. Continue applications to maintain water clarity throughout the desired period and when conducive to infestation.

Dose and Application

ProCrystal is used by distributing the unopened sachets uniformly on the surface of the water. It may be applied from the water's edge or from a boat. The sachets should be thrown directly onto the surface of the water requiring treatment.



Application Rate

Depth	Application	Frequency	Dose per 100m ²
< 1m	Initial application*	Every 30 days	300g
	Maintenance application**	Every 30 - 60 days	120g
> 1m	Initial application*	Every 30 days	500g
	Maintenance application**	Every 30 - 60 days	200g

*Continue applications until desired results are achieved.

**Continue applications to maintain desired appearance of water system throughout the growing season.

Recommended Period of Use

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

For further information contact your
ICL Technical Area Sales Manager
or visit www.icl-sf.co.uk | www.icl-sf.ie



Landscaper Pro®

The professional choice for
lawns & landscapes

So advanced, so easy. Landscaper Pro provides landscapers and gardeners with a high quality range of lawn care products.

Landscaper Pro Benefits

- Value for money
- High nutrient content, so less fertilizer is required
- Optimal delivery of nutrients for enhanced turf quality
- Encourages a strong root system for health and resilience

Product Performance*

Granule dispersal: 8 days (visually dispersed from surface)
Turf response: 7 days
Longevity: 2 - 3 months

*depending on environmental factors

Areas of Use

- ✓✓ Lawns
- ✓✓ Landscapes
- ✓✓ Beds
- ✓✓ Borders



The Landscaper Pro Range

Product Name Oxide Analysis (Elemental Analysis)	Technology/ Longevity	Product Notes
Feed, Weed & Moskiller 14-0-5 +Fe +herb (14-0-4.1 + Fe +herb)	6 Weeks	All-in-one granular weed, feed and moskiller. Maintains growth and contains a selective herbicide for weed control plus iron for moss control.
Spring & Summer 20-0-7 + 2CaO +3MgO (20-0-5.8+1Mg)	N Poly-S 2-3	A high impact fertilizer with controlled release technology formulated to give a strong immediate response, combined with up to 3 months longevity.
Autumn & Winter 12-5-20 + 3CaO +2MgO (12-2.2-16+1.4Ca+1.2Mg)	N Poly-S 2-3	Application results in a slow steady growth that helps to prevent stress during cold winter months.
Universtar Balance 15-5-15+2CaO+2MgO (15-2.2-12.4 +1Ca +1.2Mg)	2-3	Developed as a convenient and cost-effective general purpose fertilizer for use on lawns, beds and borders.





	Nutrient Breakdown							Bag Sizes (kg)	Application Rate (g/m²)	Nutrient Levels Applied (kg/ha)			Bag Coverage per m²	<div>■ Recommended Period of Use</div>												
	Total N (% Coated)	Nitrogen		Total P	Total K	MgO	CaO			N	P	K		25kg Bag	J	F	M	A	M	J	J	A	S	O	N	D
		N-NH₄	N-Urea																							
	14	10.9	3.1	0	5			15	35	49.0	0.0	17.5	428													
	20 (25%)		20		7	3	3	15	25 35	50.0 70.0	0.0 0.0	17.5 24.5	600 430													
	12 (25%)	1.3	10.7	5	20	2		15	25 35	30.0 42.0	12.5 17.5	50.0 70.0	428 600													
	15 (41%)	1.4	13.2	5	15	2	2	25	25 35	35.0 52.5	12.5 17.5	12.5 17.5	1,000 714													



Suggested maintenance programmes for lawns

Nutritional programme

An effective nutrient programme for lawn and grass areas, applying ideal nutrient requirements over the course of a year.

April Apply Landscaper Pro Spring & Summer at 35g/m²
June Apply Landscaper Pro Spring & Summer at 35g/m²
September Apply Landscaper Pro Autumn & Winter at 35g/m²

Nutritional programme + weed and moss control

An easy-to-use programme delivering nutrition when the plant needs it but also controlling weeds and moss in the spring.

April Apply Landscaper Pro Feed, Weed & Mosskiller at 35g/m²
June Apply Landscaper Pro Spring & Summer at 35g/m²
September Apply Landscaper Pro Autumn & Winter at 35g/m²

Complete nutritional programme for grass, beds and borders

A simple one product programme for lawns, beds and borders.

March Apply Universtar Balance at 35g/m²
June Apply Universtar Balance at 35g/m²
September Apply Universtar Balance at 35g/m²

Seeding a new grass area

A programme to help get your newly seeded grass area off to a great start.

March Apply Universtar Balance at 35g/m²
 Apply Landscaper Pro Performance grass seed at 25g/m²
May Apply Landscaper Pro Spring & Summer at 35g/m²
August Apply Landscaper Pro Autumn & Winter at 35g/m²

Landscaper Pro[®] Tablet

Controlled release fertilizer for trees and shrubs

The resin coating around each prill controls the daily nutrient release. Almost all the NPK is slowly made available for uptake by the plant and not lost into drains, ponds or ditches. The tablets are designed for use around pot-grown and field-grown trees, shrubs, newly planted stock and other soil-grown crops.

Sierrablén Flora Tablet Benefits

- Available as moulded tablets
- Feeds plants for two years from one application
- Predictable and reliable nutrient release



Product Characteristics

Pack size: 7kg
Analysis: 15-9-9 +3Mg (15-3.9-7.5 +1.8Mg)

Areas of Use

- ✓ Trees
- ✓ Shrubs



Osmocote® PrePlant

Pure power Osmocote fertilizer that provides full season nutrition.

Osmocote PrePlant has a consistent release pattern due to the unique ICL resin coated technology, providing nutrition when the plant needs it.

Osmocote PrePlant contains the ideal NPK and trace element package. This is suitable for the establishment and healthy growth of all plants trees and shrubs

Osmocote Exact Tablets Benefits

- Fully coated product ensures plants receive the feed when they need it
- Full trace element package
- For use on a wide range of trees, shrubs and plants

Product Characteristics

Pack size: 10kg
Analysis: 17-9-10 +2MgO +TE
(17-3.9-8.3 +2Mg +TE)

Areas of Use

- ✓✓ Trees
- ✓✓ Shrubs
- ✓✓ Plants



Contact
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www.icl-sf.ie

Sierrablen® Flora

Controlled release fertilizer
for trees and shrubs

One dressing of Sierrablen Flora applied over the root area of established plants, or incorporated in the soil in the planting hole during transplanting, will provide a continuous supply of essential nutrients throughout the growing season.

Sierrablen Flora Benefits

- Eliminates the need for repeated fertilizer dressings
- Minimises leaching – even in pure sand
- Longevity: 8 - 9 months
- Versatile feed for use in a wide range of areas



Areas of Use

- ✓ Trees
- ✓ Shrubs



Product Characteristics

Bag size: 25kg
Bag coverage: 180 - 355m²
Analysis: 11-22-9 +6MgO (11-9.6-7.4 +6Mg)

Directions For Use

Shrubs (including ericaceous), Roses and Ground Cover	Dressing	Rate of Use
Lining out, planting, maintenance	Base/top	20 - 50g/m ²
Pit planting - small plants	Base/top	5 - 10g per pit*
Pit planting - medium plants	Base/top	10 - 30g per pit*
Pit Planting - large plants	Base/top	30 - 60g per pit*
Herbaceous Annuals and Perennials	Dressing	Rate of Use
Seed beds for drilled crops, lining out, planting and maintenance	Base/top	25 - 50g/m ²
Trees, Forestry and Ornamentals	Dressing	Rate of Use
Seed beds, lining out	Base	20 - 50g/m ²
Young trees, planting, maintenance	Base/top	30 - 60g/m ²
Christmas trees	Planting/top	35g per plant
Mature trees	Top	60 - 120g/m ²

*Do not exceed 120g/m²

Recommended Period of Use

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

Contact
www.icl-sf.co.uk
www.icl-sf.ie

Levington®
TPMC

Compost for tree planting and mulching

Levington TPMC – Tree Planting and Mulching Compost – has been designed to help overcome tree and shrub establishment problems. Formulated with sufficient nitrogen for early growth, together with phosphate, potassium and a full range of trace elements for rapid establishment and healthy growth.

Levington TPMC may be used in the planting hole, as a surface mulch after planting and for general soil improvement. Its pH of around 6.0 makes it suitable for a wide range of shrubs.

Levington TPMC Benefits

- Contains NPK fertilizers – no further mixing necessary
- Retains water, air and nutrients for faster establishment
- Clean and easy to use – no unpleasant odour

Product Characteristics

75 litre bags or loose in bulk
by arrangement

Areas of Use

- ✓ Trees
- ✓ Shrubs



Directions For Use

Tree Planting

The amount of Levington TPMC required will vary depending on tree size. For whips allow 1 bag for about 4 - 5 trees; for specimens up to 3m tall allow two bags per tree.

Shrub Planting

Apply one bag of Levington TPMC per 5 - 6m² equivalent to 1,700 - 2,000 bags per hectare. Spread evenly and fork or rotovate into the top 10cm of soil.

Contact
www.icl-sf.co.uk
www.icl-sf.ie

An aerial photograph of a golf course. On the right side, there is a large, well-maintained green with a subtle pattern of small, light-colored dots. To the left of the green, there is a dense area of trees and shrubs with varying shades of green and brown. A white, curved shape on the left side of the image serves as a background for the text.

Technical Information

The demand for better quality playing surfaces
has never been higher

At ICL our focus is to deliver the best and most professional advice in the industry.
Our reputation is built not just on quality products but also on the advice and
technical support we give to our customers.



Technical Information Contents

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Spreaders

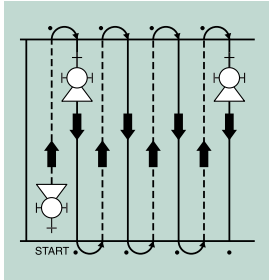
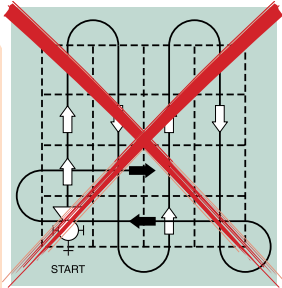
To get the very best results from your fertilizer, accurate application is essential

ICL spreaders are durable, easy-to-use, and offer turf managers the very best in application efficiency.

Spreader Index

Spreader	Type	Spread Width	Hopper Capacity	Product Usage				
				Conventional Fertilizers	Coated Fertilizers	Granular Wetting Agents	Seeds	Top Dressing
SR-2000	Rotary	2.0 - 6.0m	42 litres	✓	✓	✓		✓
AccuPro 2000	Rotary	2.0 - 6.0m	42 litres	✓	✓	✓		✓
SS-2	Drop	0.91m	46 litres	✓		✓	✓	✓
Classic Drop Spreader	Drop	0.55m	30 litres	✓		✓	✓	
HandyGreen II	Handheld	Variable	2 litres	✓	✓	✓		

Walking Pattern



Recommended walking pattern for drop and hand-held spreaders. Optimum distribution at half rate and double pass.

Helical Cone®



Optimal spreading due to the patented Helical Cone.

Top fertilizers need top spreaders

AccuPro 1000

Rotary Spreader

- 22cm pneumatic tyres
- Steel 'T' bar handle
- Edgeguard technology
- 18kg hopper capacity



SS-2

Drop Spreader

- Stainless steel frame, hopper and fasteners provide outstanding durability and corrosion resistance
- Large 139 Turf Saver 2 pneumatic wheels for easy operator use
- Extended ergonomic handle is more durable
- Lift handles in the front and back for easier loading and unloading
- Not suitable for coated controlled release products



AccuPro 2000

Rotary Spreader

- Large 136 Turf Saver 2 pneumatic tyres
- Durable large diameter frame
- Patented Helical Cone for a uniform, consistent spread pattern
- Extended handle with tuff-foam grips for added comfort



SR-2000

Rotary Spreader

Has all the features of the AccuPro 2000 Rotary Spreader plus:

- Larger diameter, more durable stainless steel frame
- Positive on-off side deflector provides effective product delivery control
- Standard port shut-off control for greater application efficiency



Classic Drop Spreader

Drop Spreader

- Top-selling drop spreader with a 22-inch spread pattern holds 10,000 square feet of fertilizer



HandyGreen II

Spreader

- A hand-held spreader that disperses fertilizers as you turn the handle. Comfortable to hold and easy to use, it is suitable for small to medium lawns



For further information contact your
ICL Technical Area Sales Manager
or visit www.icl-sf.co.uk | www.icl-sf.ie

Spreader Setting Guidelines

To help with the accurate application of your fertilizer dressings

These recommended spreader settings are given for a walking speed of approximately 5km/hr. These settings are for guidance only.

Exact rates, using the settings here, cannot be guaranteed – rates depend on the spreader itself and accuracy of the operator. Calibrate the spreader at regular intervals, including effective spreading width.

Drop Spreader Settings for SS-1 and SS-2 Single Pass at **FULL RATE**

		Amount of Product Applied (g/m ²) After One Pass										
		5	10	15	20	25	30	35	40	45	50	55
Greenmaster Pro-Lite	All Analyses		3¾	4	4½	5	5¼	5½	6	6¼	6½	
Sportsmaster	All Analyses (not including CRF Range)		3¾	4	4½	5	5¼	5½	6	6¼	6½	
SierraformGT	All Analyses		3¼	3¾	4¼	4¾	5¼	5¾	6¼	6½		
STEP Hi-Mag	Trace Elements	2	2¾	3½								
H2Pro	Granules		3¾	4¼	4¾							

Drop Spreader Settings for Classic Drop Spreader Single Pass at **FULL RATE**

		Amount of Product Applied (g/m ²) After One Pass										
		20	25	30	35	40	45	50	55	60	65	70
SierraformGT	All Analyses	4		5	6							
SierrablenPlus	All Analyses				6.75		7.25					
Sierrablen	All Analyses				13.0		14.5			12.5 (x2)		
H2Pro	Wetting Agent	6.25										

	Cone Setting	Effective Width	Amount of Product Applied (g/m ²) After One Pass														Amount of Product Applied (g/m ²) After Two Passes													
			5	10	15	20	25	30	35	40	45	50	55	60	65	70	5	10	15	20	25	30	35	40	45	50	55	60	65	70
SierraformGT																														
All Analyses	6	3.7		I½	K	L	M	M½											H	I½	J½	K								
STEP																														
STEP Hi-Mag	7	4.3	H	I½	K½												G½	H	I											
Greenmaster Pro-Lite																														
All Analyses	6	3.7						M	N												J½	K								
Sportsmaster																														
All Analyses	4	3.7			L	M	N	O½	P½	Q	R	S	T	U	V	W						L	L½	M	M½	N	O	O½	P	P½
ProTurf																														
All Analyses	6	5.0			N½	O½	P	Q½											K½	L	M	N								
SierrablenPlus																														
All Analyses	4	4.8			M	N	O	P	R	S	T								K	K½	L	M	M½	N	N½	O				
Sierrablen																														
All Analyses	4	4.7					Q	R½	T½	V	X	Q(x2)	R(x2)	R½(x2)							M	N	O	O½	P	Q	R	R½		
H2Pro																														
H2Pro Granules	5	4.0		J	K½	M													H½	I	J									

Rotary Spreader Settings for
AccuPro 2000, SR-2000, SR-1, R8-A
Single Pass at **FULL RATE**

Rotary Spreader Settings for
AccuPro 2000, SR-2000, SR-1, R8-A
Double Pass at **HALF RATE**



For further information contact your
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or visit www.icl-sf.co.uk | www.icl-sf.ie

Tank-Mix Table

Guidance notes for tank-mix compatibility of ICL and Syngenta liquid formulations

1 Do not exceed individual product rates. Do not exceed 120 L/ha for combined total Greenmaster Liquid product input or 60 L/ha for speciality Greenmaster Liquids (STEP/Effect Iron Fe/Ca-Booster).

2 Do not exceed individual product rates. Do not exceed 30 kg/ha for combined total Sportsmaster WSF product input for foliar applications (water volumes of 300 - 600 L/ha) or 60 kg/ha for drench applications (water volumes of 600 - 1,000 L/ha).

Key

✓✓ = Fully compatible

✓ = Compatible but outside recommended product water rates

✗ = Not compatible

Compatibility and Water Volumes

				Greenmaster Liquid ¹							
				High N	NK	High K	Spring & Summer	Ca-Booster	STEP Liquid	Effect Iron	
Liquid Fertilizers	Greenmaster Liquid ¹	High N	25-0-0+2MgO		✓✓	✓✓	✓✓	✓✓	✓✓	✓✓	
		NK	10-0-10+TE	✓✓		✓✓	✓✓	✗	✓✓	✓✓	
		High K	3-3-10 + TE	✓✓	✓✓		✓✓	✗	✓✓	✓✓	
		Spring & Summer	12-4-6 +TE	✓✓	✓✓	✓✓		✗	✓✓	✗	
		Ca-Booster	8-0-0 +11% CaO + TE	✓✓	✗	✗	✗		✓✓	✗	
		STEP Liquid	micronutrient	✓✓	✓✓	✓✓	✓✓	✓✓		✓✓	
	Sportsmaster	Effect Iron		✓✓	✓✓	✓✓	✗	✗	✓✓		
Water Soluble Fertilizers	Sportsmaster WSF ²	Liquid Fe		✓✓	✓✓	✓✓	✓✓	✗	✓✓	✓✓	
		High N		✓✓	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓	
		Spring & Summer		✓✓	✓✓	✓✓	✓✓	✗	✗	✗	
		High K		✓✓	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓	
		Iron		✓✓	✓✓	✗	✗	✗	✓✓	✗	
Wetting Agents	HzPro	SeaMax		✓✓	✓✓	✓✓	✓✓	✗	✓✓	✓✓	
		HzPro TriSmart		✓✓	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓	
		HzPro FlowSmart		✓✓	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓	
		HzPro AquaSmart		✓✓	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓	
		HzPro DewSmart		✗	✗	✗	✗	✗	✗	✗	
BioStimulant	Qualibra			✓✓	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓	
		Blade		✓✓	✓✓	✓✓	✓✓	✗	✓✓	✗	
		SILK		✗	✗	✗	✗	✗	✗	✗	
		AminoBoost		✓✓	✓✓	✓✓	✓✓	✓✓	✗	✓✓	
		Stressbuster		✓✓	✓✓	✓✓	✗	✓✓	✓✓	✓✓	
Plant Growth Regulator	SeaMax			✓✓	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓	
		Primo Maxx II		✓✓	✓✓	✓✓	✓✓	✓✓	✓✓	✗	
		Heritage Maxx		✓✓	✓✓	✓✓	✓✓	✓✓	✓✓	✗	
		Medallion		✓✓	✗	✗	✓✓	✗	✓✓	✗	
		Banner Maxx II		✓✓	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓	
Fungicides	Instrata			✓✓	✗	✗	✓✓	✗	✓✓	✗	
		Instrata Elite		✓✓	✓✓	✓✓	✓✓	✓✓	✓✓	✓	
		Headway		✓✓	✓✓	✓✓	✓✓	✓✓	✓✓	✗	
		Jewel		✓✓	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓	
		Rescue		✓✓	✗	✗	✗	✗	✓✓	✗	
Herbicides	Praxys			✓	✓	✓	✓	✗	✓	✓	

Ready Reckoner

Nutrient application from granular fertilizers

Nutrient Calculations

Nutrient application from granular fertilizers

Calculation of amount of nutrient applied from declared analyses and treatment rate. The fertilizer declarations are always expressed as % weight by weight, with nutrients being declared in the oxide form in the UK.

Therefore, a 14-5-10 fertilizer contains:

14% w/w N
5% w/w P₂O₅
10% w/w K₂O

Granular fertilizers

For calculating nutrient inputs for granular fertilizer, use the following formula:

Application rate (kg/ha) x (% nutrient/100) = kg nutrient/ha

Example: 14-0-0 @ 35g/m²

Convert application rate from g/m² to kg/ha (i.e. 35g/m² x 10 = 350 kg/ha)

Multiply product rate (kg/ha) by % N content (i.e. 14% N = 0.14) = kg N per ha (i.e. 350 x 0.14 = 49kg N/ha)

Liquid fertilizers

In order to calculate the nutrient inputs from Greenmaster Liquid fertilizers, you need to use the Specific Gravity (kg/litre) of the particular product being used.

Specific Gravity (SG) of:

NK 1.23

High N 1.31

Spring & Summer 1.18

High K 1.18

Ca Booster 1.32

STEP Liquid 1.15

Effect Iron Fe 1.25

Vitalnova Blade 1.36

For calculating nutrient inputs for liquid fertilizers, use the following formula:

Application rate (L/ha) x Specific Gravity (SG) x (% nutrient/100) = kg nutrient/ha

Example: 12-4-6 @ 60 L/ha (SG = 1.18 kg/L)

Convert application rate from L/ha to kg/ha (i.e. 60 L/ha x 1.18 = 70.8 kg/ha)

Multiply product rate (kg/ha) by % N content (i.e. 12% N = 0.12) = kg N per ha (i.e. 70.8 x 0.12 = 8.5kg N/ha)

Ready Reckoner

Nutrient Analysis %N, P ₂ O ₅ , K ₂ O etc. Declared	Kg Nutrient/ha Applied at These Application Rates					
	20 g/m ²	30 g/m ²	35 g/m ²	70 g/m ²	105 g/m ²	140 g/m ²
1	2.0	3.0	3.5	7.0	10.5	14.0
2	4.0	6.0	7.0	14.0	21.0	28.0
3	6.0	9.0	10.5	21.0	31.5	42.0
4	8.0	12.0	14.0	28.0	42.0	56.0
5	10.0	15.0	17.5	35.0	52.5	70.0
6	12.0	18.0	21.0	42.0	63.0	84.0
7	14.0	21.0	24.5	49.0	73.5	98.0
8	16.0	24.0	28.0	56.0	84.0	112.0
9	18.0	27.0	31.5	63.0	94.5	126.0
10	20.0	30.0	35.0	70.0	105.0	140.0
11	22.0	33.0	38.5	77.0	115.5	154.0
12	24.0	36.0	42.0	84.0	126.0	168.0
13	26.0	39.0	45.5	91.0	136.5	182.0
14	28.0	42.0	49.0	98.0	147.0	196.0
15	30.0	45.0	52.5	105.0	157.5	210.0
16	32.0	48.0	56.0	112.0	168.0	224.0
17	34.0	51.0	59.5	119.0	178.5	238.0
18	36.0	54.0	63.0	126.0	189.0	252.0
19	38.0	57.0	66.5	133.0	199.5	266.0
20	40.0	60.0	70.0	140.0	210.0	280.0
21	42.0	63.0	73.5	147.0	220.5	294.0
22	44.0	66.0	77.0	154.0	231.0	308.0
23	46.0	69.0	80.5	161.0	241.5	322.0
24	48.0	72.0	84.0	168.0	252.0	336.0
25	50.0	75.0	87.5	175.0	262.5	350.0

Note: 35 per m² = 350kg per ha =

1 oz. per sq yd = 2.7 cwt per acre

Note: 50kg per ha = 0.38 cwt per acre
= 43lbs per acre

Note: 1kg per ha = 0.86lbs per acre

Ounces per square yard to grammes per square metre

oz per sq.yd	¼	½	1	2	3	4	5	6	7	8	9	10	15	20
g per m²	8.5	17	34	68	102	136	170	204	238	272	306	340	510	680

Fluid ounces per square yard to millilitres per square metre

fl.oz per sq.yd	¼	½	1	2	3	4	5	6	7	8	9	10	15	20
ml per m²	8.5	17	34	68	102	136	170	204	238	272	306	340	510	680

Weight

Weight	pounds	to kilogrammes	divide by	2.205	kilogrammes	to pounds	multiply by	2.205
	tonnes	to tonnes	multiply by	1.016	tonnes	to tonnes	divide by	1.016
	cwts	to kilogrammes	multiply by	50.794	kilogrammes	to cwts	divide by	50.794
Area	acres	to hectares	divide by	2.471	hectares	to acres	multiply by	2.471
	square yards	to square metres	multiply by	0.8361	square metres	to square yards	divide by	0.8361
Volume	pints	to litres	multiply by	0.568	litres	to pints	divide by	0.568
	litres	to gallons	divide by	4.546	gallons	to litres	multiply by	4.546
Weight/ Area	tonnes/acre	to tonnes/hectare	multiply by	2.51	tonnes/hectare	to tonnes/acre	divide by	2.51
	cwts/acre	to tonnes/hectare	divide by	8.00	tonnes/hectare	to cwts/acre	multiply by	8.00
	cwts/acre	to kilogrammes/hectare	multiply by	125.00	kilogrammes/hectare	to cwts/acre	divide by	125.00
Volume/ Acre	pints/acre	to litres/hectare	divide by	0.712	litres/hectare	to pints/acre	multiply by	0.712
	gallons/acre	to litres/hectare	multiply by	11.233	litres/hectare	to gallons/acre	divide by	11.233
	lbs/cu.ft	to kg/cu.m	multiply by	16.052	kg/cu.m	to lbs/cu.ft	divide by	16.052

Length	1 metre (100cm)	3.281 feet 1.094 yards
Area	square metres	1.196 square yards
	1 hectare (10,000m²)	2.471 acres
Volume	1 litre (1,000 ml)	35.211 fluid ounces 1.76 pints
Weight	1 gramme	0.0353 ounces
	1 kilogramme	35.2074 ounces 2.205 lbs
Temperature	Degree Centigrade (°C) to Degree Fahrenheit (°F) multiply by 1.8 and add 32	

Typical Areas of Use

Golf Green		365 - 640m²	400 - 700 sq.yds
Bowling Green		38.4 x 38.4m 42.0 x 42.0 sq.yds	1,475m² 1,764 sq.yds
Cricket Square		27.4 x 27.4m 30.0 x 30.0 yds	752m² 900 sq.yds
Tennis Court	(reg)	23.8 x 11.0m 26.0 x 12.0 yds	262m² 312 sq.yds
	(full)	36.6 x 18.3m 40.0 x 20.0 yds	670m² 800 sq.yds
Lacrosse		137.0 x 73.0m 150.0 x 80.0 yds	10,001m² 12,000 sq.yds
Football Pitch	(small)	91.4 x 46.0m 100.0 x 50.0 yds	4,204m² 5,000 sq.yds
	(large)	119.0 x 91.4m 130.0 x 100 yds	10,877m² 13,000 sq.yds
Rugby Pitch		100.0 x 69.0m 110.0 x 75.0 yds	6,900m² 8,250 sq.yds
Hockey Pitch	(small)	91.4 x 50.0m² 100.0 x 55.0 yds	4,570m² 5,500 sq.yds
	(large)	91.4 x 55.0m² 100.0 x 60.0 yds	5,027m² 6,000 sq.yds
Croquet		32.0 x 26.0m² 35.0 x 28.0 yds	832m² 980 sq.yds
GAA	(small)	130.0 x 80.0m 142.0 x 87.0 yds	10,400m² 12,354 sq.yds
	(large)	145.0 x 90.0m 158.0 x 98.0 yds	13,050m² 15,484 sq.yds

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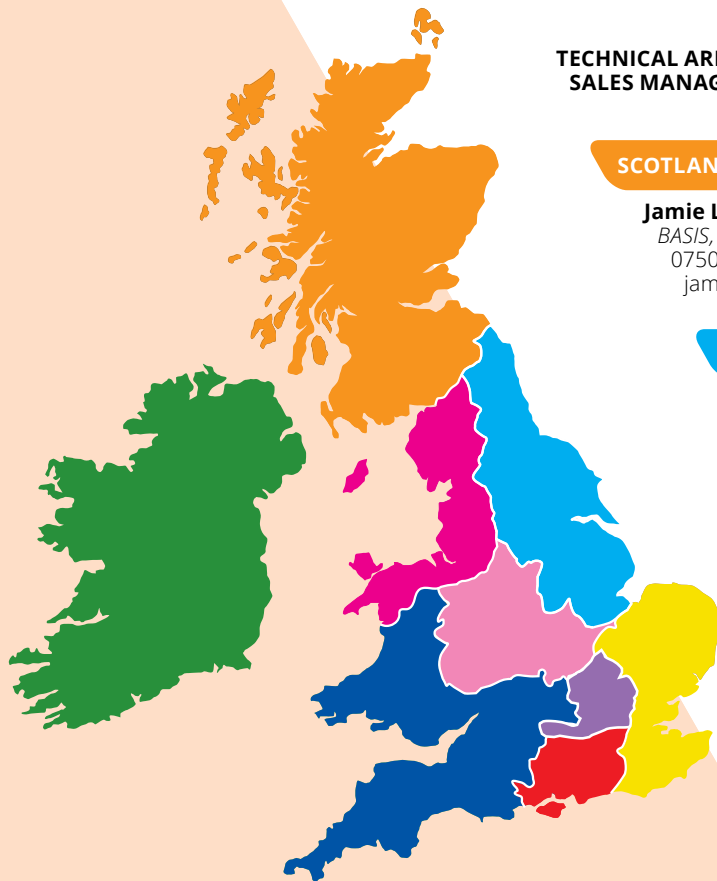
Notes

This image shows a blank sheet of white paper with horizontal blue or grey ruling lines. Two diagonal orange stripes are present: one on the left side running from the top-left towards the bottom-right, and another on the right side running from the top-right towards the bottom-left. The stripes meet at the center of the page, creating a symmetrical design. There is no handwriting or other markings on the paper.

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Turf & Landscape Sales Team

To place your order, please contact your local ICL distributor or ICL representative



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To ensure our staff are properly trained, ICL ensures that, where relevant, continuing professional development is completed and staff gain professional accreditation. In the UK, for example, staff are FACTS (FQA) and BASIS qualified.

USE PLANT PROTECTION PRODUCTS SAFELY.
ALWAYS READ THE LABEL AND PRODUCT
INFORMATION BEFORE USE.

...we're here to help



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