



SmartLawn Fertiliser

Professional lawn fertiliser made easy



This guide has been designed to help you understand our products and services but if you still have questions please get in touch and one of the sales team will be happy to help!

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SmartLawn Fertiliser

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Product Storage and Use

Granular and soluble products generally have a shelf life of 1-2 years provided they are kept in a cool and dry place.

Liquid products vary in shelf life, for more information please check the product label. To achieve maximum shelf life, liquid products should be kept in a dry place between 5 and 25 degrees Celsius. Some liquids may require shaking prior to use if they are prone to settling.

Always read the label and product information before use. Material safety data sheets (MSDS) are available to download from smartlawnfertiliser.co.uk or can be provided on request.

Packaging, Recycling and Disposal

Our fertiliser packaging can be recycled. Please contact your local waste management service for more information on commercial recycling of plastics.



LDPE

Plastic sacks



HDPE

Plastic bottles

SmartLawn, SmartLawn Fertiliser, the SmartLawn logo, Onyx, Nutrilong V90 and the Nutrilong V90 logo are all trademarks of GreenBest Ltd.

*The product information given in this publication is accurate on the date of printing and may be subject to change. (A107)
Where given, the NPK of a product refers to the typical analysis in terms of N:P₂O₅:K₂O.*



SmartLawn Fertiliser

SmartLawn is a range of specialist lawn fertilisers designed specifically for the professional lawn care industry



**Professional
lawn fertiliser
made easy**

Reliable

Our formulations are tried and tested. We have 18 years of experience supplying the UK lawn care industry so we know which products work for you.

Easy

We've made lawn fertiliser clear and easy to understand. You don't need a science degree to know which product to buy and why.

Knowledge

Our sales team have a scientific background, we are able to help with any nutritional questions you may have about turf and can help you choose products and design your treatment plans.

Community

We're passionate about supporting community within the UK lawn care industry. We are sponsors of the UK Lawn Care Association and we hold regional networking/training events.

Quick Delivery

We keep the entire SmartLawn range in stock to enable fast delivery for when you unexpectedly run out. We have a range of flexible delivery options and work with you to provide the best delivery service possible.



SmartLawn Fertilisers are
manufactured in the UK by
GreenBest Ltd



www.greenbest.co.uk
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GreenBest is the leading manufacturer of “bespoke” granular and liquid fertilisers for the professional market.

GreenBest is a long established fertiliser manufacturer with over 20 years experience supplying own brand products for many UK fertiliser distributors.

All of our fertilisers are manufactured and packaged at our production site in Somerset. We take great care in sourcing high-quality raw materials from around the world ensuring the right particle sizes, compatibility and user friendliness. Our portfolio includes a huge range of NPKs, slow and controlled-release nutrients, organics, biostimulants, wetting agents, foliar feeds, and many other specialist products and ingredients.

What is Nutrilong™?

Nutrilong is the controlled-release nitrogen component of SmartLawn fertilisers that is manufactured in Somerset by GreenBest Ltd.

Each granule consists of a nutrient core surrounded by a polymer shell. The thickness of the shell is carefully controlled to give a reliable product longevity. The Nutrilong granules in our SmartLawn fertilisers release nitrogen in response to temperature and moisture, they keep the lawn fed until your next visit. Once the nitrogen is used up the empty shells are broken down by soil bacteria into naturally occurring compounds.

NUTRILONG

Controlled Release Fertiliser





An Introduction to Lawn Nutrition

This quick guide will help you design and plan your lawn fertiliser treatments.

If you need help with a specific nutritional problem, or require a soil analysis interpretation please contact a member of the GreenBest sales team who will be happy to help.

What nutrients do plants need?

In order to live and grow, all plants need access to a selection of essential nutrients, a domestic lawn is no different. Each nutrient is important for different reasons, so it is important that all the required nutrients are available to the plant in order for it to flourish.

The vast majority of a plant is made up of nutrients that the plant gets from air and water; Carbon (C), Hydrogen (H) and Oxygen (O).

The remaining nutrients are split into two groups: Macronutrients, which are required in relatively large quantities, and Micronutrients that are required in smaller quantities.

Macronutrients

Nitrogen (N)
Phosphorus (P)
Potassium (K)
Calcium (Ca)
Magnesium (Mg)
Sulphur (S)

Micronutrients

Boron (B)
Chlorine (Cl)
Copper (Cu)
Iron (Fe)
Manganese (Mn)
Molybdenum (Mo)
Nickel (Ni)
Zinc (Zn)

The nutrients above are required for different jobs in the plant. If all the required nutrients are present in the soil and available to the plants then the lawn will be healthy and green with less chance of developing diseases.

A lawn must have water, air and sunlight to thrive.

Why do we need to treat lawns with fertiliser?

Whilst natural biological processes in the soil can provide some of the above nutrients to the lawn they cannot keep up with nutrient loss from normal lawn care activities such as mowing. In order to replace the nutrients lost when clippings are removed from a lawn, we must apply a fertiliser. This will keep the lawn green, thick and growing healthily.

What happens if a lawn is short of nutrients?

If a lawn is deficient in any of the essential nutrients you will start to notice deterioration in colour and vigour. A nutrient deficient lawn is also susceptible to disease so you may notice a rise in fungal and bacterial problems.

Applying the correct balance of fertiliser treatments throughout the year will prevent any deficiencies occurring. A member of the GreenBest sales team will be able to help you if you need any help or advice choosing the right fertilisers for your treatment plan.



Liquid vs granular fertiliser

A liquid fertiliser treatment is perfect for providing an instant nutrition boost to the lawn and can take effect in only a few hours. They are ideal for use before an important event when rapid colour improvement is required and for supplementing granular treatments. Granular fertilisers are better suited for regular lawn treatments as they provide longer lasting nutrition. Our spring/summer granular fertiliser can last up to 3 months, by contrast, liquid feeds will last a maximum of 4 weeks.

Effect of pH on nutrient availability

The ideal pH for a lawn depends on the grass species growing in it, however, a soil pH of between 6 and 6.5 will suit most domestic lawns. pH meters and testing kits are easy to get hold of and allow you to get a rough idea of the pH of the soil.

Soil pH can vary depending on a number of factors including geographical location and soil type. Very low or high pH can cause nutrients to become unavailable to plant roots, this can cause a deficiency even if you are applying plenty of the nutrient. Correcting a pH problem is a long-term process, if you are treating a lawn with a significant problem it may be worth asking a member of the GreenBest sales team for advice.

Other factors affecting lawn health

The sun is very important to plants, they cannot survive without it. The green pigment in the leaves, called chlorophyll, is used to collect the sunlight and generate energy which the plant uses to grow and live. Without sunlight, a lawn can struggle and weaken allowing weeds and moss to take over. It is possible to buy seed for shade tolerant species of grasses. These will perform better in light shade than other varieties.

Moss is a common problem in UK lawns. It grows well in damp, cool conditions and has remarkably high drought tolerance. Moss requires little nutrition making it easily able to take over the whole lawn when conditions cause the grass to weaken. A mossy lawn can be due to many factors including poor drainage, acidic soil, poor nutrition, too much shade and poor air circulation. Products containing Iron (Fe) will help discourage moss from spreading.



SmartLawn Fertiliser

Choosing the right fertiliser

Spring

Spring is the time to apply high nitrogen fertiliser for lush green growth, 20-25% is ideal. A product with a high percentage of slow release nitrogen will prevent excessive growth so no extra mowing is required. It will also maintain the lush green growth right up until the next treatment in the summer.

page 12) Ultimate 22-5-10 + 2.5%MgO +2.5%CaO 50%V90

Summer

In summer you can save time and money by applying a product with a low risk of scorching the grass so that it doesn't need to be watered in. Organic material and biostimulants (e.g. seaweed extract) can also be applied to increase drought tolerance; keeping the lawn greener for longer and helping it recover quicker.

page 14) Droughtsafe 19-3-9 100% V90/Organic

Autumn

Applying a suitable fertiliser in autumn will help prepare the lawn for winter. It should not be high in nitrogen (5-15%) and should have a good amount of potassium (10-20%) as this will help the roots to develop. A granular feed is necessary after an autumn scarification to make sure the lawn thickens up before the winter.

page 16) AutumnGreen 10-5-10 +2%MgO 50%V90

Winter

Avoid applying high levels of nitrogen in winter as this will cause soft growth that is susceptible to disease. Due to the low soil temperature, the lawn will often become dormant so any fertiliser applied should be low in nutrients.

page 18) First & Last 6-5-10

Moss Control

Products containing high levels of iron (Fe) are commonly used for their moss blackening properties which can help with moss control. Beware though, products containing Fe can cause staining on patios, driveways and fencing which is difficult to remove.

page 20) Black & Green 12%Fe 5%MgO

page 22) Liquid Iron 6%Fe

New Lawns

New lawns will establish faster and more successfully with an application of fertiliser. Apply a high-phosphorus feed before seeding or under new turf to support the new growth. Encourage customers to water new lawns until established to increase the chance of success.

page 24) Seed Starter 6-10-8 + 2%MgO 30%V90

Health Boost

Lawns often need a little health boost to improve their appearance, especially if the summer has been very dry or if the lawn is undergoing a renovation programme. Biostimulants can really help improve the grass and soil health.

page 30) Seaweed Extract / Onyx Liquid

Extended Feeding

If you can only visit the lawn two or three times a year you will need a feed with 6 months longevity and one that is temperature controlled. It should be at least 25% nitrogen to ensure the feed is effective for the whole 6 months.

page 26) Stretch 28-5-10 80% Nutrilong V180

Designing a Treatment Plan

Design your treatment plan to suit your business. Start by selecting the fertiliser products you wish to apply based on the results you want to achieve. Then you can arrange the application periods based on how many applications you want to offer and/or the longevity of the products. Avoid "hungry gaps" by applying the next treatment just as the previous one is nearing the end of its longevity period.

Luxury Lawn - 4/5 Applications

Application Periods:

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
First and Last	Blue	Blue	Blue	Grey	Grey	Grey	Grey	Grey	Grey	Grey	Grey	Blue
Liquid Iron 6% (Where required)	Purple	Purple	Purple	Grey	Grey	Grey	Grey	Grey	Grey	Grey	Grey	Purple
Ultimate	Grey	Grey	Green	Green	Green	Grey	Grey	Grey	Grey	Grey	Grey	Grey
Drought Safe	Grey	Grey	Grey	Grey	Grey	Yellow	Yellow	Yellow	Grey	Grey	Grey	Grey
AutumnGreen	Grey	Grey	Grey	Grey	Grey	Grey	Grey	Grey	Orange	Orange	Orange	Grey

Standard Lawn - 4 Applications

Application Periods:

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
First and Last 6%Fe	Blue	Blue	Blue	Grey	Grey	Grey	Grey	Grey	Grey	Blue	Blue	Blue
Ultimate	Grey	Grey	Grey	Green	Green	Green	Grey	Grey	Grey	Grey	Grey	Grey
Drought Safe	Grey	Grey	Grey	Grey	Grey	Grey	Yellow	Yellow	Yellow	Grey	Grey	Grey

New Lawn/Renovation - 4 Applications

Application Periods:

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
First and Last	Blue	Blue	Blue	Grey	Grey	Grey	Grey	Grey	Grey	Blue	Blue	Blue
Seed Starter	Grey	Grey	Grey	Red	Red	Red	Grey	Grey	Grey	Grey	Grey	Grey
Ultimate	Grey	Grey	Grey	Grey	Grey	Grey	Green	Green	Green	Grey	Grey	Grey

Reduced visits - 2/3 Applications

Application Periods:

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Black and Green (Where required)	Grey	Grey	Grey	Grey	Grey	Grey	Grey	Grey	Grey	Dark Blue	Dark Blue	Dark Blue
Stretch	Green	Green	Green	Grey	Grey	Grey	Green	Green	Green	Grey	Grey	Grey

The coloured blocks above indicate the time period in which the product could be applied as a lawn treatment. Please note that seasons can vary in temperature from year to year, treatment application periods may need to be adjusted to suit.





SmartLawn Fertiliser

Granule Size

Granule size is sometimes referred to as SGN or particle size. The granule size of a product relates to the size of each granule in the fertiliser. Most SmartLawn fertilisers are available in a choice of two granule sizes allowing you to choose the one that suits your needs. There is no need to worry about the height at which the lawn will be mown; both sizes are suitable for any domestic lawn.



Mini Grade (1-2mm)

Good coverage even at low application rates
More particles per square metre mean this product is less likely to cause speckling when applied at lower application rates.

Quick to dissolve
Smaller granules dissolve quicker and do not hang around on the surface for as long. Fast release nutrients will be available to the plant quicker.

Low visibility after application
Small particle size allows the product to settle discreetly at soil level out of view.



Lawn Grade (2-3mm)

Easy to apply
Visible granules help you avoid a patchy lawn by being able to see where the product has and hasn't already been applied.

Covers large areas quickly
Larger, heavier, granules allow a wider spread as the product is able to fly a greater distance.

High visibility after application
Customers can see the product on the lawn and feel assured that a treatment has been carried out.

Spreader Settings

Where available, spreader settings for each product will appear on the product label.

Product Type	Granule Size	EarthWay	Accupro 2000 or SR-1
Fast Release (e.g. First and Last)	Mini Grade 1-2mm	16	4, O
	Lawn Grade 2-3mm	19	4, S
Slow Release (e.g. DroughtSafe)	Mini Grade 1-2mm	17	4, P
	Lawn Grade 2-3mm	18	4, R

Suggested spreader settings for 25-35g/sqm [single pass, full rate]

The above settings are for guidance only. Actual application rates may vary depending on many factors including walking speed, spreader upkeep and weather conditions.

**Did you know we supply spreaders?
Ask one of the sales team about our range of
quality granular spreaders for more information**



Spreader Calibration

In order to get the best results from your granular fertiliser we recommend calibrating your spreader for each product used.

**Great results
every time**

**Save money by
not over-applying**

Calibrate your spreader by calculating the application rate for a known setting. Adjust the setting as required to give the desired application rate. Keep a record of spreader settings for each product to save time with each application.

How to calibrate your spreader

During calibration the spreader should be pushed by the intended operator. Spread width should be observed for each setting and product calibrated. This method is suitable for most push-along and hand-held spreaders.

- Place a known quantity of fertiliser in the hopper
- Walk a set distance (e.g.10 metres) at normal walking speed
- Empty the hopper and weigh remaining product
- Use method below to calculate your application rate
- Adjust your spreader settings up/down until you get the desired rate

How to calculate the effective application rate

1. Starting product weight (g) - Remaining weight (g) = Product used (g)
2. Spread distance (m) x Spread width (m) = Area covered (sqm)
3. Product used (g) ÷ Area covered (sqm) = Application rate (g/sqm)





Ultimate™

22-5-10 +2.5% MgO +2.5%CaO [50% of N from Nutrilong V90]

A premium spring and summer fertiliser suitable for use on any domestic lawn. This particular blend is extremely popular in the spring. Ultimate is formulated with Nutrilong V90 slow release nitrogen to maintain lush growth for up to 3 months without the need for excessive mowing. A proportion of fast release nitrogen is available for green up and lush growth after application.



Application Rate:
25-35 g/sqm

Unit Size:
20kg

Unit Coverage:
570-800 sqm

Typical Analysis

Nitrogen (N).....	22%
Phosphorus (P ₂ O ₅).....	5% (2.2% P)
Potassium (K ₂ O).....	10% (8.3% K)
Magnesium (MgO).....	2.5% (1.5% Mg)
Calcium (CaO).....	2.5% (1.8% Ca)

The release pattern of Ultimate is perfect for spring applications. Your customers will see a green-up and growth improvement just a few days after treatment.

Ultimate can be applied once the threat of frost is over until late summer. Application from March to August is recommended.

Main Application Period:



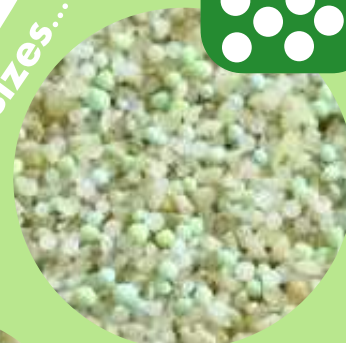
Healthy looking, lush growth that won't require excessive mowing

We know that your customers expect to see a difference after treatment but they don't want to be mowing the lawn excessively because of it. Ultimate is designed to give maximum impact without causing excessive growth. The Nutrilong V90 in this blend will feed the grass slowly over the full 3 months until you return for the next treatment.

NUTRILONG
V90

Available granule sizes...

1-2 mm



2-3 mm



Magnesium
for improved
colour

Ideal for
use after
scarification

Contains
fast and slow
release
nitrogen

Non-
staining

Calcium for
disease
resistance

Understanding...

Nitrogen

Nitrogen is an essential nutrient for grass growth. Applying nitrogen in high quantities in the spring and summer encourages lush grass growth and good colour. Nitrogen also encourages grass to tiller (send out side shoots) so is great for thickening up the lawn after scarification. Applying too much fast release nitrogen can cause scorching. Our spring and summer lawn fertilisers should not cause scorching when applied as per pack instructions. In the colder months it is advisable to use low nitrogen feeds as new growth in cold temperatures can easily become diseased.





DroughtSafe™

19-3-9 [100% of N from Nutrilong V90 and organic sources]

Our best-selling summer lawn fertiliser for use on any domestic lawn. DroughtSafe is formulated for application in the summer when high temperatures and lack of rainfall prevent the application of other fertilisers. The coated nitrogen (Nutrilong V90) allows for slow and steady release once the rain returns, the organic component has stress-relieving and biostimulant properties to help keep the lawn greener for longer during periods of drought.



Application Rate:
25-35 g/sqm

Unit Size:
20kg

Unit Coverage:
570-800 sqm

Typical Analysis

Nitrogen (N).....	19%	[From Nutrilong V90 and organic sources]
Phosphorus (P ₂ O ₅).....	3%	(1.3% P)
Potassium (K ₂ O).....	9%	(7.5% K)

Since DroughtSafe is formulated without any fast release nitrogen, the nutrient release pattern is evenly distributed throughout the 3 month period.

DroughtSafe can be applied at any time in the spring or summer. It can also be applied in drought conditions and does not need to be watered in.

Main Application Period:



Safe to apply in drought

100% controlled growth

Provides relief for heat and drought stressed lawns

The perfect combination of mineral and organic fertiliser

DroughtSafe is made with Onyx, the unique plant-based fertiliser that has biostimulant properties.

NUTRILONG **V90**

Since DroughtSafe lawn fertiliser is formulated without any fast release nitrogen, the nutrient release pattern is evenly distributed throughout the 3 month period. The coated nitrogen (Nutrilong V90) allows for slow release once the rain returns.



DroughtSafe is made with our unique granular biostimulant, Onyx. The high level of amino acids in this material provides relief to stressed out lawns. It also nurtures the beneficial soil microbes which helps keep the lawn strong and healthy all through the year.

Available granule sizes...



It's worth remembering that no fertiliser can stop a lawn going brown due to drought in the summer months. Even the healthiest lawns will go into a dormant period if no water is available. DroughtSafe is formulated to help maintain a green lawn as long as possible in these conditions and also prepares the lawn for faster green up when the rain returns.

What causes scorching?

Scorching of a lawn occurs when high levels of salty standard-release nutrients are applied to the leaves or soil. Just as salt is used to reduce the water content of dried foods such as beef jerky, the salty fertiliser draws moisture out of the plant through the leaves or roots. In the summer this problem is amplified because water is already evaporating at a high rate from the leaves and soil.

The traditional way of avoiding scorched lawns is to apply fertiliser products when rain is expected or, if available, to artificially irrigate the lawn with a hose or sprinkler system. This is not always ideal as there may be periods of time when no work can be carried out and no money earned. The ideal situation would be to apply a fertiliser that will not scorch the lawn even if it is not watered in.





SmartLawn Fertiliser

AutumnGreen™

10-5-10 +2%MgO [50% of N from Nutrilong V90]

A premium fertiliser perfect for application in the autumn to prepare the lawn for the cold months ahead. AutumnGreen is formulated with low levels of fast and slow release nitrogen to maintain green colour through the season but also to avoid disease-prone soft growth.

Excellent for use on lawns prone to red thread...

The wet and warm conditions of autumn are perfect for red thread disease. AutumnGreen fertiliser can be used at the higher rate of 35-40g/sqm to keep lawns well-fed through the autumn period and keep the damage of red thread disease to a minimum.

Application Rate:
25-40 g/sqm

Unit Size:
20kg

Unit Coverage:
500-800 sqm

NUTRILONG
V90



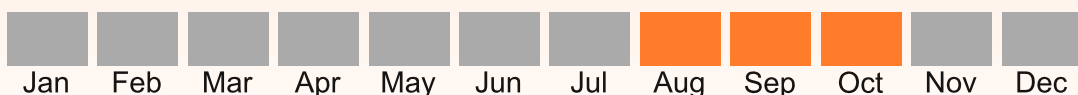
Typical Analysis

Nitrogen (N).....	10%
Phosphorus (P ₂ O ₅).....	5% (2.2% P)
Potassium (K ₂ O).....	10% (8.3% K)
Magnesium (MgO).....	2.0% (1.2% Mg)

AutumnGreen is formulated for 3 months longevity and is perfect for application in the autumn to maintain lawn colour and vigour.

The main application period for this product is August to October.
It can also be used as an early spring treatment in February and March if temperatures allow.

Main Application Period:



After scarification and aeration...

Autumn is a great time of year for scarification and aeration, but without an application of fertiliser afterwards the lawn may be at risk of looking thin and weak during winter. Applying a balanced fertiliser such as AutumnGreen encourages the lawn to thicken up in time for the colder months without causing too much excess growth. The extra magnesium encourages green up, without the chance of staining that is associated with iron products.

Added magnesium for green-up

Fast and slow release nitrogen

Available granule sizes...

1-2 mm

2-3 mm

LEAVES DAMAGE LAWNS

Leaves provide the perfect conditions for bacterial and fungal diseases to attack. They also cause the lawn to turn yellow and create favourable conditions for moss to thrive.

Can also be used in early spring!

Understanding... Potassium

High potassium fertilisers are traditionally applied in the autumn to prepare the lawn for the harsh winter months ahead by increasing cold tolerance and disease resistance. Potassium is a vital nutrient for lawns and is required all year round. It helps a lawn to green up and higher levels will not cause excessive growth. Potassium also helps increase drought tolerance so it plays an important part in spring and summer formulations.



SmartLawn Fertiliser

First & Last™

6-5-10 (+6%Fe)

All variations of First & Last are perfect for use from late autumn through to winter and early spring. The formulation will support root development and increase plant strength for better disease resistance during the colder months. Variations containing iron (Fe) are perfect for adding moss control to your treatment, saving you time and money.

'Your first and last
treatment of the
year'

Application Rate:
25-40 g/sqm

Unit Size:
20kg

Unit Coverage:
500-800 sqm



Typical Analysis

Nitrogen (N).....	6%
Phosphorus (P ₂ O ₅).....	5% (2.2% P)
Potassium (K ₂ O).....	10% (8.3% K)
Iron (Fe)	0% or 6% depending on product choice (see opposite)

First & Last is a standard release lawn fertiliser with an average longevity of 4-6 weeks. This product is perfect for winter and autumn treatments, but also works well as an early spring treatment to prepare the lawn for the growing season ahead. First & Last can be applied any time of year as long as there is no threat of frost.

Recommended Application Period:



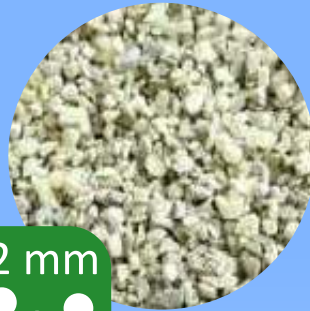


**PERFECT FOR
AUTUMN/WINTER
EARLY SPRING**

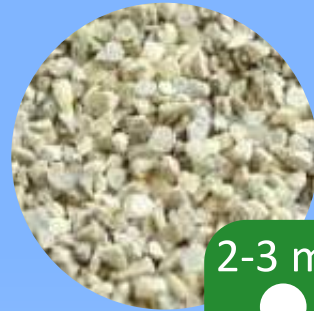
Flexible

Fast
Acting

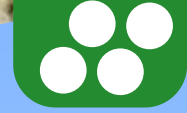
Good Value



1-2 mm



2-3 mm



6-5-10

First & Last without iron (Fe) is available in two granule sizes to suit your preferences. Either size can be paired with a separate granular or liquid iron treatment for tailored moss control.

Green-Up ✓

Non-Staining ✓✓✓

Growth ✓

First & Last™ without iron will not cause staining on hard surfaces.

6-5-10 +6%Fe

Green-Up ✓✓✓

Moss-Blackening ✓✓

Growth ✓



1-2 mm



After more than 20 years, First & Last with 6% iron (Fe) is still one of the most popular autumn/spring feeds in the SmartLawn range. It is popular because it acts as two treatments in one, saving you time and money. This product is only available in 1-2mm granule size as this makes it more effective at moss-blackening.

Normal application rate: 25-35g/sqm

If applied at 40g/sqm this product will cause moss to blacken.



Warning:

Products containing iron (Fe) will cause staining if applied to hard surfaces such as pathways and decking.





SmartLawn Fertiliser

Black & Green™

12%Fe 5%MgO

Spreadable granules

Super high iron content

Black & Green has the highest iron content of all the SmartLawn fertilisers. It's high level of iron causes moss blackening and intense green-up even at normal application rates. The product also contains a high level of magnesium to support chlorophyll production for an intense green colour. The homogeneous granules mean that an even colour can be achieved when applied at lower application rates. The granules are also low-dust and easy to apply with a broadcast spreader.

Green-Up ✓✓✓

Moss-Blackening ✓✓✓



Warning:

Products containing iron (Fe) will cause staining if applied to hard surfaces such as pathways and decking. To avoid fertilisers containing iron watch out for this warning symbol.



Typical Analysis

Magnesium (MgO).....	5%	(3% Mg)
Iron (Fe).....	12%	
Sulphur (SO ₃).....	34%	(13.6% S)

Black & Green can be applied any time of year providing there is no risk of frost. Recommended application times are September to March. The product has a longevity of 4-6 weeks.

Black & Green is perfect for application after scarification to blacken any remaining moss. When applied as part of a yearly treatment programme, this product can be used to maintain a beautiful green lawn all year round.

Main Application Period:



Application Rate: 25-35 g/sqm Unit Size: 20kg Unit Coverage: 570-800 sqm



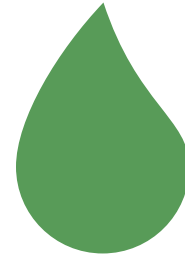
Moss

Causes and Remedies

Moss grows well in damp, cool conditions. It has remarkably high drought tolerance and requires little nutrition making it easily able to outcompete lawn grass and eventually take over the whole lawn.

Moss can be treated in the short term with scarification and an application of iron (Fe), but for a long term solution, it is best to look at the causes of the problem. The table below shows the most common causes of moss growth in a domestic lawn. For more information on any of the following remedies please ask a member of the GreenBest sales team.

Cause	→	Remedy
Poor drainage	→	Aeration
Acidic soil	→	Applications of lime
Thatch build up	→	Scarification
Leaves left on lawn	→	Regular removal of fallen leaves
Poor nutrition	→	Increase nutrient input
Shady area	→	Reduce shade or overseed with shade tolerant grass species
Mowing height too low	→	Raise mowing height
Infrequent mowing	→	Increase mowing frequency
Poor air circulation	→	Clear objects / plants restricting air flow
Damaged areas	→	Repair worn patches with turf or seed as soon as possible



Liquid Iron Treatments

Iron is an essential micronutrient for the production of the green pigment, chlorophyll. When applied to lawns as a liquid it can rapidly improve colour, making it perfect for winter treatments when the application of other fertilisers is discouraged.

Liquid applications of iron are favoured by many lawn care technicians due to their ease of use and ability to strictly control coverage, thus preventing application to hard surfaces which can lead to staining.

The following products can be applied any time of year except when in drought conditions. An improvement in colour can often be seen within hours of application.



Warning:

Products containing iron (Fe) will cause staining if applied to hard surfaces such as pathways and decking. To avoid fertilisers containing iron watch out for this warning symbol.



Liquid applications of iron sulphate are especially suited to lawns where the soil is acidic or suffering from compaction.

Liquid Iron

20 L



6%Fe +1%Mn +2%N (w/v)

SmartLawn's liquid iron offers an easy option for winter treatments. The added manganese and nitrogen help to further improve the green-up response.

Simply add the required amount to your knapsack, fill with water and start spraying. No dissolving required.



For green-up:

300ml per 100sqm
(30 litres per hectare)
Maximum 5L water per 100sqm

For green-up + blackening:

900ml per 100sqm
(90 litres per hectare)
Maximum 5L water per 100sqm

1 x 20 litre will treat up to 6,600sqm

Soluble 20% Iron

20 kg

20% Fe +32% SO₃

SmartLawn soluble iron is made from iron sulphate heptahydrate. It offers excellent value for money and it dissolves easily in cold water.

For green-up:

80-100g per 100sqm

(8-10kgs per hectare)

Maximum 5L water per 100sqm

For green-up + blackening:

240-320g per 100sqm

(24-32 kgs per hectare)

Maximum 5L water per 100sqm

1 x 20 kg will treat up to 25,000sqm (2.5 hectares)



SmartLawn Soluble Iron is a blue/green crystalline powder



Tank Mixing

It is possible to tank mix most of our nutritional liquid products together but we would always advise carrying out a small scale test first. Dilute the products as per recommendations and mix them together in a small, clear container (an empty jam jar works well). Leave the container to stand for at least 24 hours in a cool place. If any material has fallen out of solution after this time then the products are not compatible and tank mixing is not advised.

We do not recommend mixing any of our products with plant protection chemicals such as herbicides or fungicides.

Understanding... Iron

Iron is a micronutrient that is essential for chlorophyll production in all plants. Applying iron to the lawn causes a quick green-up response without causing extra growth, making it great for use as a winter lawn treatment. High applications of iron cause moss to blacken, though we are not sure exactly why this happens. Unfortunately, iron products can rust and cause staining if left on stone and wood, and for this reason, they should not be used to treat moss on hard surfaces!





SmartLawn Fertiliser



Seed Starter

6-10-8 +2%MgO [30% N from Nutrilong V90]

Applying a fertiliser after seeding or laying turf will give a new lawn the best start possible. Seed Starter has a variety of applications and can be used wherever new lawns are seeded or laid.

Seed Starter's high phosphorus content encourages strong root growth. Low levels of fast and slow release nitrogen encourage strong shoots to develop and support healthy growth of the new plants for up to 3 months. Magnesium is also included to facilitate production of chlorophyll leading to strong healthy plants.

Seed Starter can be applied in the spring or early autumn. It can be used after seeding a new lawn or over-seeding a thin or scarified lawn. If laying turf, work the product into the top layer of soil at the recommended application rate prior to laying the turf as this will encourage new root growth and better establishment.

Application Rate:
25-35 g/sqm

Unit Size:
20kg

Unit Coverage:
570-800 sqm

NUTRILONG
V90



Typical Analysis

Nitrogen (N).....	6%
Phosphorus (P ₂ O ₅).....	10% (2.2% P)
Potassium (K ₂ O).....	8% (8.3% K)
Magnesium (MgO).....	2% (1.2% Mg)



1-2 mm

Main Application Period:



Faster establishment - Increased seedling count

Seeding a new lawn

There are occasions when you may need to start a new lawn from scratch. Seeding fertilisers such as Seed Starter are designed to speed up establishment and give the best start to the new lawn. Apply the fertiliser after seeding or as soon as possible after germination, do not be tempted to exceed the recommended application rate as this could prevent healthy growth.

Traffic on the new lawn should be avoided until it is fully established. Mowing can begin when the lawn reaches a height of 5cm but care should be taken as the grass will still be delicate for some time. Once the lawn is fully established you should then apply a seasonal fertiliser to the lawn to continue the healthy growth.



Overseeding

After scarification or lawn renovation you may find that the lawn is looking a little thin. The best solution for this is to apply a lawn seed to the lawn to fill in the gaps. Take the opportunity to use a seed species that is more suited to the lawn, for example, if the lawn is quite shaded then a shade tolerant mix is suitable. Changing the mix of species in the lawn is the ideal way to make your job easier in the long-term!

Apply Seed Starter alongside the seed to support healthy development of the seed and get the lawn looking thick and lush again in no time.

Understanding... Phosphorus

Phosphorus is required in smaller quantities than nitrogen and potassium but it still plays an important part in the health of the lawn. Among other roles phosphorus is involved in plant growth and development, making it especially important for new lawns. High phosphorus fertiliser is often used in agriculture for seed production. It is not necessary to apply excessive amounts of phosphorus to established lawns, just enough to replace that which is taken away with clippings and nutrient leaching.



Stretch

28-5-10 [80% of N from Nutrilong V180]

SmartLawn Stretch is a new addition to the SmartLawn Fertiliser family. It is formulated based on feedback from our customers. Stretch is designed to be applied any time of year and to feed the lawn with nitrogen for up to 6 months. The release of nitrogen in SmartLawn Stretch is temperature-controlled, meaning that you can apply the product in the winter and it will not start feeding the lawn until the soil temperature warms up.



Application Rate:
25-35 g/sqm

Unit Size:
20kg

Unit Coverage:
570-800 sqm

Typical Analysis

Nitrogen (N)	28%
	[22.4% Temperature-controlled release]
	[5.6% Fast release]
Phosphorus (P ₂ O ₅)	5% (2.2% P)
Potassium (K ₂ O)	10% (8.3% K)

The release pattern of Stretch is perfect for spring and summer applications. Your customers will see a green-up and growth improvement just a few days after treatment.

Stretch can be applied in the winter but it is not recommended to apply it during periods of frost.

Main Application Period:



The ideal 6 month lawn treatment for use any time of year

SmartLawn Stretch is suitable for use at any time of year, even in winter! This is because the Nutrilong V180 will not release nitrogen until the soil temperature has reached an appropriate level. It is especially useful for gardening companies who experience their highest workload in the spring and autumn and do not have time to apply short-term feeds. SmartLawn Stretch can form part of an annual treatment programme and is ideal for use alongside our biostimulant products.

For guidance on how to use this product in your treatment plan please contact a member of the GreenBest sales team.



2-3 mm

V180 releases nitrogen when it's needed

Can be used any time of year

Granules invisible once settled to soil level

Non-staining

Ideal for gardening businesses

Take a look inside the granule...

NUTRILONG **V180**



UREA

POLYURETHANE SHELL

*Precision coated uniform granules
Slow nutrient release in response to temperature
Nitrogen delivered by diffusion when it's needed*

Wetting Agent

Non-ionic wetting agent

Wetting Agents (Wetters) are surfactants. They reduce the surface tension of water, helping it to spread further and 'wet' surfaces. A wetting agent enables the water to penetrate the soil faster, moving it away from the sward and deeper into the rootzone.

Smartlawn Wetting Agent has been developed for use on all types of grass including domestic lawns. It is specially designed to help prevent the occurrence of localised dry patch (LDP) which can inhibit healthy grass growth in the summer months.

Application Rate:
2-5 ml/sqm

Unit Coverage:
1L = 200 - 500 sqm
10L = 0.2 - 1 hectares

Monthly Programme

Initial application 200-400ml per 100sqm in 5-10L of water
Subsequent monthly applications 100-200ml per 100sqm in 5-10L of water

90 Day Programme

Initial application 500ml per 100sqm in 5-10L of water
Subsequent application 90 days later 500ml per 100sqm in 5-10L of water



For best results throughout the summer, it is recommended that you start applications in the early spring as a preventative measure.

Apply with a knapsack sprayer or watering can. Apply with plenty of water to ensure the product is washed evenly and thoroughly into the soil.

This product can be tank mixed with other fertilisers and chemicals, but we recommend you check compatibility with a "jam jar" test prior to use.

Main Application Period:



Professional water management for domestic lawns

Minimises appearance of dry patches in summer

Fully biodegradable

Ensures quick and even uptake of rain water

Non-scorch

Long-lasting residual effect

Low foam formulation

Increased efficiency of applied fertilisers

Understanding... Hydrophobic soil

Hydrophobic (water hating) soil conditions are usually caused by natural breakdown of plant matter (e.g. thatch) in the soil. Hydrophobic soils tend to inhibit even distribution of water in the soil, thus starving grass roots of adequate moisture and the water soluble nutrients from your lawn treatments. In most cases this leads to the appearance of brown patches in the lawn.

Wetting agents are designed to eliminate hydrophobic conditions and allow water to spread evenly and quickly through the soil again.





SmartLawn Fertiliser

Biostimulant Liquids



Onyx Liquid is an organic, plant-based biostimulant. It is rich in amino acids and also delivers significant levels of nitrogen, potassium and trace elements. Onyx Liquid is an effective way to reduce stress in lawns and encourage development of healthy soil. Its sugar and amino acid content act as food for beneficial soil microbes, whilst the other nutrients benefit the grass directly.

Onyx Liquid can be used all year round but will benefit the lawn most if used when during the growing season (March-November)



Application rates:

100-200ml per 100sqm (10-20 litres per hectare) as a biostimulant
400-600ml per 100sqm (40-60 litres per hectare) as a fertiliser feed

Unit size: 20 L

Unit Coverage: 0.1-2 hectares

Contains:

NPK: 5.3 - 0.16 - 2.5

+ Sugars (3 - 6%)

+ Amino Acids - 9.2%

Trace Elements:

Calcium, Copper, Iron, Manganese and Zinc



Seaweed Extract

Seaweed has been used as a fertiliser for centuries. The natural hormones in this extract stimulate healthy growth and efficient use of applied nutrients. Our seaweed extract liquid is manufactured from *Ascophyllum nodosum*, harvested from the west coast of Ireland.

Seaweed Extract can be used any time of year. It is especially useful in late spring to prepare the lawn for the dry summer months ahead. It should not be applied to lawns suffering from fungal diseases.

Application rate: 200-400ml per 100sqm (20-40 litres per hectare)

Unit size: 20 L

Unit Coverage: 0.5 - 1 hectares

Contains:

8% Seaweed Solids

Natural Growth Promoters (Cytokinins, Auxins, Gibberellins)

Trace Elements: Sulphur, Calcium, Magnesium, Iron, Copper, Zinc, Boron, Manganese

Amino Acids - Alanine, Arginine, Aspartic Acid, Cystine, Glutamic Acid, Glycine, Histidine, Isoleucine, Leucine, Lysine, Methionine, Phenylalanine, Proline, Serine, Threonine, Tyrosine, Valine

What is a biostimulant?

A biostimulant is an organic material that enhances plant growth and development. There are many benefits to biostimulants when applied as part of a lawn's nutritional program.

The active ingredients found in biostimulants include plant hormones, enzymes, humic acids, sugars and amino acids. They can act directly on plant roots to encourage nutrient uptake and growth, or they can indirectly benefit the plant by encouraging and maintaining healthy soil biology.

These products can be tank mixed with fertilisers and other chemical to aid uptake and protect the turf, but a "jam jar" test is recommended to test compatibility prior to mixing.

How much water?

Application to leaf (foliar) -
6 litres water per 100sqm

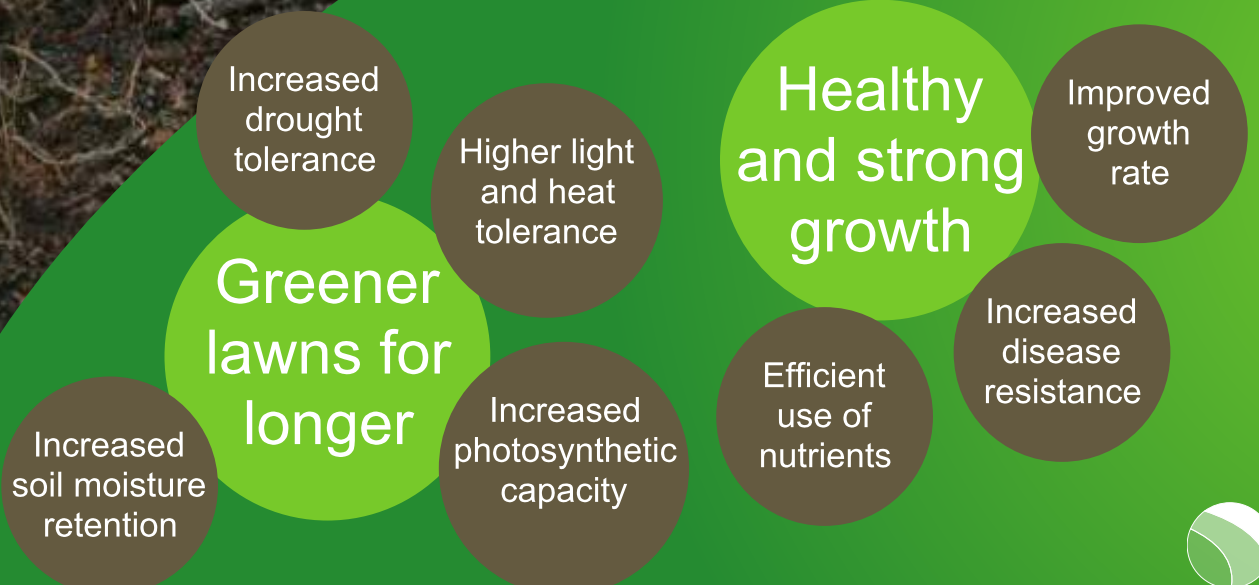
Application to roots -
10 litres water per 100sqm

(The amount of water you will need depends on the nozzle you use, your walking speed and how you want to apply the product. The above values are a rough guide only.)

Ideal
add-on
treatments

Our biostimulant products can be applied at any time of year but will be most effective when the soil temperature is above 5°C. They will not scorch but for best results you should apply in damp conditions or when rain is expected.

What are the benefits of adding biostimulants to your treatment service?



Iron Stain Removal

Fertilisers containing iron are valuable to the lawn care industry. They are easy to source, relatively safe to use and very effective. Unfortunately, they can cause orange/brown staining to occur on hard surfaces such as decking and paving. These stains are often quite difficult to remove and can affect relationships with your customers.

Due to the huge range of hard surface materials used in modern gardens and their differences in porosity, texture and stability, there is no “cure all” for iron staining. Results from each cleaning method will vary. The generally accepted approach is to try a few methods until you find something that works. It is always recommended that you test each remedy on a hidden area first.

Prevention

Spray liquids away from hard surfaces.

Immediately rinse liquid iron products from hard surfaces with plenty of clean water.

Brush/blow granular products off of hard surfaces after application.

Request that your customer does not mow or walk on lawn for 1-2 days after application.

Mechanical

Vigorous scrubbing may help to remove the worst of the staining.

Acids and Chemicals

A variety of acids have been known to help. They must be allowed to react for a few minutes before scrubbing and rinsing well. A number of repeat applications may be required.

Fresh Lemon Juice (Citric acid)

Spirit Vinegar (Acetic acid)

Stain removal products, see opposite for more details.

Always read the product information and label before use.

The products on this page have already proved popular with our customers. We offer two products depending on the type of surface you are trying to clean.

Product information and Material Safety Data Sheets for these products can be found on our website.



Lithofin Rust-Ex
500 ml [Treats 5 sqm]

To remove rust from natural and artificial stone, quarry tiles, concrete etc

Acid free - also suitable for marble and limestone.

Directions for use

1. Apply a small amount of product to the stain and spread with a brush. Product colour will change to violet as part of the reaction.
 2. Brush and rinse off with plenty of water after a maximum of 10 minutes.
 3. Repeat process if necessary.
- Remaining violet discolouration will fade over time.



Lithofin BERO
1 Litre [Treats 7-15 sqm]

Concentrated product for use on ferrous hard stones such as Serizzo, Calanca, Cresciano etc.

Directions for use

1. Dilute 1:7 with water, apply evenly to surface.
2. Allow to work for 4-8 hours. In case of stubborn discolouration allow up to 24 hours. Protect the surface from contact with water during this time.
3. Rinse surface with water.
4. Repeat process if necessary.

Do not use on polished marble, or lime stone, aluminium, zinc etc.

See the difference...



Iron stained natural stone treated once with Lithofin Bero



Other Services



Soil Testing

Identifying the reason behind a problematic lawn cannot always be done through visual inspection alone. If you feel a soil analysis is necessary then we can help.

All soil samples are sent to an independent laboratory for analysis. Once the results are back we will then return them to you along with our interpretation and recommendations. If you need further advice on suitable treatments then we can advise you further.

Choose from three levels of analysis:

Basic Soil Test [S1]

P, K, Mg, pH & Lime Recommendation

Broad Spectrum Soil Test [BS]

P, K, Mg, pH, Lime Recommendation, Ca, S, Na, Mn, Cu, Fe, Zn, Mo, B & CEC

Broad Spectrum Extra Soil Test [BSE]

P, K, Mg, pH, Lime Recommendation, Ca, S, Na, Mn, Cu, Fe, Zn, Mo, B, CEC, Organic Matter, Sand %, Silt %, Clay% & Soil texture classification

Free interpretation is included with each sample analysed

Analysis prices vary, please ask a member of the team for an up to date price list.



Bespoke Blending

In addition to the tried and tested SmartLawn range of fertilisers, we are also able to offer bespoke blends.

We can work with you to design a product that fits the needs of you and your lawn care business.

Our bespoke blends are made to order and unlike other manufacturers we usually have no minimum order requirement.

For next steps and pricing please have a chat with a member of the sales team, who will be happy to advise you.



Book-In Deliveries

To help make deliveries as smooth as possible we use a transport company that offers a "book-in service". This service allows you to receive a phone call from the incoming depot to arrange a delivery date that best suits you. You will then be able to contact the delivery company again should you have a question about the delivery or need to contact them on the day of the delivery.

No surprise deliveries

Direct contact with the transport company

Maximum flexibility

The book-in service costs the same as standard 2-3 day delivery service and all deliveries are fully trackable by the GreenBest team.

For information on this and the other delivery services we offer, and to find out which one best suits you please talk to a member of the sales team.



Networking and Education Events

GreenBest are keen to support the UK's community of independent lawn care businesses, that is why we are sponsors of the UK Lawn Care Association. We also offer our own networking and training events.

For more information on upcoming events please check our website or speak to a member of the sales team.





SmartLawn Fertiliser



Product Range

Fertiliser

Fertiliser		Spring	Summer	Autumn	Winter	Moss Control
Ultimate	22-5-10+2.5%MgO+2.5%CaO 50%V90 [1-2mm] [2-3mm]	✓	✓			
DroughtSafe	19-3-9 100%V90/Organic [1-2mm] [2-3mm]	✓	✓			
AutumnGreen	10-5-10 +3%MgO 50%V90 [1-2mm] [2-3mm]	✓		✓		
First & Last	6-5-10 [1-2mm] [2-3mm]	✓		✓	✓	
	6-5-10 +6%Fe [1-2mm] [2-3mm]	✓		✓	✓	✓
	6-5-10 +8%Fe [1-2mm] [2-3mm]	✓		✓	✓	✓
Black and Green	12%Fe 5%MgO [1-2mm]	✓		✓	✓	✓
Seed Starter	6-10-8 +2%MgO 50%V90 [1-2mm]	✓		✓		
Stretch	28-5-10 80% V180 [2-3mm]	✓	✓	✓	✓	
Liquid Iron	6% Fe	✓		✓	✓	✓
Soluble Iron	20% Fe	✓		✓	✓	✓
Wetting Agent	Non-ionic wetting agent	✓	✓	✓	✓	
Seaweed Extract	8% Seaweed solids	✓	✓	✓	✓	
ONYX Liquid	5.3-0.16-2.5 organic based liquid	✓	✓	✓	✓	

Other NPK products are available through our bespoke blending service

Other products

Lithofin Bero Acid based iron stain removal

Lithofin Rust-Ex Non-acid based iron stain removal

Fertiliser spreaders and sprayers are also available. Please ask for current stock information.

Notes





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