

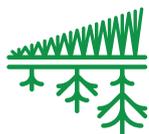
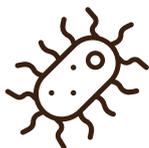


# SOIL BIOLOGY

Invest in Soil

## Product Guide

Biology-Focused Solutions for Stronger, Healthier Turf





# SOIL BIOLOGY

## Invest in Soil

Sustainable solutions for stronger, healthier turf surfaces.

### **Soil Biology delivers healthier, more resilient turf through biology-focused solutions.**

Our 100% biology-focused products and programmes work with natural processes—above and below the surface—to restore balance, reduce costly chemical reliance, and build lasting turf performance.

The result is playing surfaces that are consistent, sustainable, and better for your players, your budget, and the environment.

### **Products with Purpose**

Every product in the Soil Biology range is designed to support soil health and turf performance—whether by stimulating microbial activity, improving nutrient cycling, breaking down organic matter, or building resilience to stress and disease. Together, they form tailored programmes that deliver long-term results, season after season.

### **Expertise You Can Rely On**

Our team combines decades of agronomy and greenkeeping experience with a passion for innovation. We understand the daily challenges turf managers face and provide practical, science-backed solutions—not just products off the shelf.

### **Service that Stands Out**

From soil testing to programme design and ongoing support, we're with you every step of the way. Responsive advice, reliable delivery, and a commitment to customer care set us apart—helping you get the best from your turf, naturally.

**Turn the page to explore how Soil Biology can transform your turf from the ground up.**

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# Amide Liquid Foliar Feeds

## Efficient Feeding, Soil-Friendly Results

Conventional fertilisers often carry high salt levels that not only stress the turf but also damage soil microbes, leading to reduced microbial diversity and long-term declines in turf health.

Soil Biology's **Amide Liquid Foliar Feeds** are different. Designed to work in harmony with nature, they deliver nitrogen and key nutrients in a complexed amide form that plants can use more efficiently, with fewer losses to leaching, volatilisation, or emissions.

This efficiency means lower application rates, less risk of scorch, and longer-lasting performance. At the same time, our low-salt, biology-friendly formulations protect soil microbes, prevent acidification, and support healthier rootzones.

The result is **consistent turf growth, stronger plant resilience, and more sustainable playing surfaces**—without the drawbacks of traditional salt-based fertilisers.

## Benefits of Soil Biology Amide Liquid Foliar Feeds:

- › **Efficient nitrogen use** – Less waste through leaching, volatilisation, or emissions.
- › **Controlled release** – Steadier nutrition with less scorch and fewer applications.
- › **Sustainable solution** – Effective nutrition with reduced environmental impact.
- › **Biology-friendly formulations** – Low salt, protecting soil microbes and rootzone health.
- › **Stronger turf resilience** – Improved stress tolerance and natural plant defences.
- › **Practical in use** – Highly compatible, easy to apply, and reliable across turf programmes.
- › **Promotes exudates** – To support biological soil life.

[www.soilbiology.uk](http://www.soilbiology.uk)



## Amide Liquid Foliar Feeds

### FlexBio 18.0.3

**Total Nitrogen (N)** 17.6% (Amide N: 15.9%, Nitrate N: 1.7%)

**Phosphorus (P<sub>2</sub>O<sub>5</sub>)** 0.1%

**Potassium (K<sub>2</sub>O)** 3.2%

**Calcium (CaO)** 4.6%

**Magnesium (MgO)** 1.5%

**Trace Elements** Manganese (Mn), Boron (B)

**Key Additive** Triacontanol

**FlexBio** provides a complete slow-release nutrient package with added natural plant extracts to stimulate root growth, tillering, and shoot strength.

- ▶ Ideal for spring and summer, offering efficient nitrogen with a low salt index and fast uptake.
- ▶ Includes a 5% carbohydrate source to boost microbial growth in the rootzone.

**Pack Sizes:** 20L, 100L, 200L, 600L

### Nitro 22 Mag 4.5

**Total Nitrogen (N)** 22.0% (Amide N: 22.0%)

**Magnesium (MgO)** 4.5%

**Key Additive** Fulvic Acids

**Nitro 22 Mag 4.5** partners well with growth regulators and is ideal for turf greening.

- ▶ Complexed magnesium supports root development, enzyme activity, and chlorophyll production.
- ▶ Amide nitrogen promotes turf exudate production, nourishing soil microflora.

**Pack Sizes:** 20L, 100L, 200L, 600L

### BioCarb 3.0.12

**Total Nitrogen (N)** 3.0% (Amide Nitrogen: 3.0%)

**Potassium (K<sub>2</sub>O)** 12.0%

**Key Additive** Triacontanol

**BioCarb** is an ideal foliar feed for early start and autumn treatments, delivering nitrogen and potassium effectively when lower soil temperatures restrict root uptake.

- ▶ Potassium strengthens plant cell walls during abiotic stress and reduces susceptibility to pests and disease.
- ▶ Mildly acidic (pH 5.5) to optimise nutrient availability and support soil health.

**Pack Sizes:** 20L, 100L, 200L, 600L

### SB Fortress

**Total Nitrogen (N)** 6.0% (Amide N: 6.0%)

**Potassium (K<sub>2</sub>O)** 0.6%

**Magnesium (MgO)** 1.2%

**Salicylic Acid** 2.0%

**SB Fortress** is a salicylic acid and nutrient formulation that boosts natural plant defences and improves photosynthesis, transpiration, and nutrient transport.

- ▶ Stimulates the plant's defence mechanisms against biotic and abiotic stresses.
- ▶ Enhances cell division, photosynthesis, and root development.
- ▶ Regulates key enzymes for plant immunity and resilience, supporting healthy growth under stress.

**Pack Sizes:** 20L, 100L

### SB Response 6.0.0

**Total Nitrogen (N)** 6.0% (Amide N: 6.0%)

**Trace Elements** Copper (Cu) 1%, Zinc (Zn) 3%, Magnesium (MgO) 1.6%, Manganese (Mn) 3.7%, Sulphur (SO<sub>3</sub>) 10%

**Key Additive** Triacontanol

**SB Response** is a premium multi-nutrient package designed for natural turf resilience and hardiness against biotic stresses during autumn and winter.

- ▶ Complexed nutrients ensure fast, efficient uptake and simultaneous absorption of all elements which are quickly translocated for uniform distribution throughout the plant.
- ▶ Includes stabilised plant extracts and phytoelicitors to enhance photosynthesis, root and shoot growth, and rhizobacteria-promoting root exudates.

**Pack Sizes:** 20L, 100L, 200L

### Liquid Calcium

**Amide Nitrogen (N)** 3.9%

**Calcium (CaO)** 14.5%

**Boron (B)** 0.25%

**Liquid Calcium** utilises advanced nutrient uptake technology to enhance calcium absorption.

- ▶ Rapidly treats calcium deficiencies and strengthens plant cell walls.
- ▶ Boron synergy improves plant health and efficiency of calcium uptake.

**Pack Sizes:** 20L, 100L



## Amide Liquid Foliar Feeds

### Supa ATP

**Phosphorus (P<sub>2</sub>O<sub>5</sub>)** 20.6%

**Potassium (K<sub>2</sub>O)** 4.8%

**Trace Elements** Sulphur (SO<sub>3</sub>), Manganese (Mn), Boron (B), Zinc (Zn)

**Key Additive** Triacontanol

**Supa ATP** provides phosphorus in a highly effective, nitrogen-free spray to combat deficiencies year-round.

- ▶ Powers turf growth from seedling to maturity and strengthens it against cold weather.
- ▶ Low pH formulation ensures nutrient availability.

**Pack Sizes:** 20L, 100L, 200L

### pHylloFeed 6.0.0

**Total Nitrogen (N)** 6.0% (Amide Nitrogen: 6.0%)

**Magnesium (MgO)** 2.0%

**Sulphur (SO<sub>3</sub>)** 2.9%

**Trace Elements** Manganese (Mn), Boron (B), Zinc (Zn), Copper (Cu), Molybdenum (Mo), Cobalt (Co)

**pH** 2.4

**Key Additive** Triacontanol

**pHylloFeed** is designed to aid the sward health and to boost photosynthesis even after applications of nitrogen or other micronutrients.

- ▶ Delivers a balanced mix of minerals for even nutrient uptake, avoiding lock-up from straights.
- ▶ Amide nitrogen speeds plant response, enabling direct amino acid and protein synthesis.

**Pack Sizes:** 20L, 100L, 200L, 600L

### pHylloFlex NP 7-14

**Total Nitrogen (N)** 7.0% (Amide N: 5.0%, Ammonium N: 2.0%)

**Phosphorus (P<sub>2</sub>O<sub>5</sub>)** 13.8%

**Magnesium (MgO)** 1.0%

**Trace Elements** Sulphur (SO<sub>3</sub>), Zinc

**pH** 2.2

**Key Additive** Triacontanol

**pHylloFlex NP** is formulated to address phosphorus shortages throughout the year.

- ▶ Prevents phosphorus loss from complexing and does not inhibit mycorrhizal development when overseeding.

**Pack Sizes:** 20L, 100L, 200L, 600L

### pHylloGreen 12.2.7

**Total Nitrogen (N)** 12.0% (Amide N: 10.6%, Nitrate N: 1.4%)

**Phosphorus (P<sub>2</sub>O<sub>5</sub>)** 1.9%

**Potassium (K<sub>2</sub>O)** 7.0%

**Magnesium (MgO)** 0.7%

**Trace Elements** Sulphur (SO<sub>3</sub>), Manganese (Mn), Boron (B), Zinc (Zn), Copper (Cu), Molybdenum (Mo)

**pH** 1.9

**Key Additive** Triacontanol

**pHylloGreen** combines phosphorus and micronutrients to energise turf and support seedling and root development.

- ▶ Neutralises bicarbonates in root zones, combating high pH irrigation and sand dressings.
- ▶ Provides carbohydrate to encourage microbial activity in sand-based root zones.

**Pack Sizes:** 20L, 100L, 200L, 600L

### pHylloMag

**Total Nitrogen (N)** 2.0% (Amide N: 2.0%)

**Magnesium (MgO)** 12.0%

**pH** 2.0

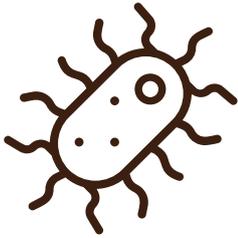
**Key Additive** Fulvic Acid 2%

**pHylloMag** rapidly corrects magnesium deficiencies and enhances nitrogen uptake, promoting photosynthesis.

- ▶ Ideal replacement for granular magnesium, improving chlorophyll production and combating leaching in low-pH soils.

**Pack Sizes:** 20L, 100L, 200L, 600L





# Microbes

## Harnessing Biology to Power Turf Health

Microbes are the unseen workforce of every healthy soil. In the rhizosphere, communities of bacteria and fungi break down organic matter, cycle nutrients, and create conditions that allow turf to thrive. When these microbial populations are damaged or depleted by heavy chemical use, the soil loses its natural ability to sustain turfgrass.

Soil Biology supplies carefully selected **synergistic consortia of bacteria and fungi**, cultured to perform specific functions that improve nutrient uptake, root development, and turf resilience. By reintroducing this diversity back into the soil, we restore the living system that underpins healthy turf.

Our microbial products have been **developed for ease of use** in professional turf management, with proven tank-mix compatibility, straightforward application, and a long, stable shelf life.

## Benefits of Soil Biology Microbes:

- › **Restore soil life** – Replenish essential microbial communities in the rootzone.
- › **Promote healthier soils** – Build resilience, structure, and biological balance
- › **Support nutrient cycling** – Unlock bound nutrients for plant uptake
- › **Enhance turf vigour** – Promote balanced growth and stress tolerance
- › **Practical in use** – Easy application, tank-mix friendly, and reliable shelf stability

[www.soilbiology.uk](http://www.soilbiology.uk)



# Plant Fix (PGPR)

**Contains:** Five strains of *Bacillus spp.* ( $4 \times 10^{10}$ cfu/ml).

**Plant Fix (PGPR)** is a flagship microbial inoculant that harnesses carefully selected strains of beneficial bacteria to enhance turf resilience, root strength, and overall plant performance. By colonising the rhizosphere, these microbes stimulate soil biological activity, improve nutrient availability, and support the plant's natural response pathways, helping create healthier, more sustainable playing surfaces.

This powerful formulation helps reduce reliance on intensive chemical inputs by improving nutrient use efficiency and supporting stronger root systems. Through regular application, Plant Fix (PGPR) promotes deeper, more robust rooting capable of tolerating wear and environmental stress, enabling turf to adapt to changing conditions, recover more effectively from pressure, and maintain consistent performance throughout the season.

**Pack Sizes:** 50ml, 500ml, 1L

### Key Benefits

- › Stimulates microbial activity and improves soil-plant interactions.
- › Activates rhizosphere defences.
- › Promotes deeper, stronger roots for improved nutrient and water uptake.
- › Increases tolerance to drought, extreme weather, and heavy foot traffic.
- › Reduces dependence on synthetic inputs, lowering costs and environmental impact.
- › Safe, natural solution suitable for all turf systems and soil types.

## SB HybridTea

**Contains:** Beneficial bacteria including *Bacillus*, *Pseudomonas*, *Paenibacillus*, *Azotobacter*, *Azospirillum* and *Beijerinckia*, combined with *Ascophyllum nodosum* (seaweed extract) and dextrose for microbial support.

**HybridTea** is a microbial consortium of synergistic rhizosphere bacteria and fungi formulated to release bound nutrients, improve fertiliser efficiency, and reduce thatch.

- › Unlocks bound phosphorus and other nutrients in the soil.
- › Extends the effect of applied fertilisers for steady growth.
- › Accelerates organic matter breakdown, reducing thatch accumulation.
- › Contains nitrogen-fixing bacteria, lowering the need for synthetic N inputs.
- › Complements compost tea programmes.

**Pack Sizes:** 1kg bags

## BioPlusMax

**Contains:** Beneficial bacteria (*Bacillus*, *Pseudomonas*, *Paenibacillus*, *Azotobacter*, *Azospirillum*, *Beijerinckia*) and fungi (*Trichoderma*), supported with perlite and dextrose powder.

**BioPlusMax** is a soluble microbial inoculant for optimising fertiliser use, promoting nutrient cycling, and supporting turf health.

- › Fixes nitrogen and solubilises phosphate, increasing plant availability.
- › Contains carbohydrate biostimulants to establish microbial populations.
- › Enhances fertiliser efficiency and reduces nutrient losses.
- › Supports consistent growth and soil health.

**Pack Sizes:** 1kg pack

## BioScarify

**Contains:** Beneficial fungi (*Trichoderma*, *Phanerochaete*) and bacteria (*Bacillus*, *Paenibacillus*), enriched with soluble seaweed and delivered in a polyvinyl alcohol film for easy application.

**SB BioScarify** is a microbial blend targeting cellulose and lignin degradation to break down fibrous organic matter and improve surface drainage.

- › Reduces thatch and organic build-up in fine turf.
- › Improves surface drainage and playability.
- › Enhances water infiltration and ball speed.
- › Reduces food sources for pathogenic fungi.

**Pack Sizes:** 50g or 160g packs

## Biomex Five (PGPR)

**Contains:** Plant Growth Promoting Rhizobacteria.

**Biomex Five** is a consortium of five strains of Plant Growth Promoting Rhizobacteria (PGPR) that colonise roots, improve nutrient uptake, and build soil resilience.

- › Releases bound nutrients (P, K, Ca, Mg, trace elements).
- › Produces phytohormones to stimulate root growth.
- › Improves tolerance to abiotic stress (drought, salinity, compaction).
- › Increases resistance against phytopathogenic organisms.

**Pack Sizes:** 5L can

## Dry Patch Blend

**Contains:** Beneficial bacteria (*Bacillus*, *Pseudomonas*, *Paenibacillus*) supported with dextrose powder.

**Dry Patch Blend** is formulated to target hydrophobic soil conditions caused by fungal hydrophobins, restoring water penetration and reducing dry patch.

- › Digests hydrophobins responsible for water repellency.
- › Reduces dry patch symptoms by restoring infiltration.
- › Outcompetes dry patch-causing fungi, reducing recurrence.
- › Promotes healthier rootzone water balance.

**Pack Sizes:** 5kg pack

## Companion

**Contains:** Microbial package *Bacillus subtilis* GB03.

**Companion** is a microbial inoculant that establishes beneficial bacterial populations on roots and leaf surfaces, supporting plant resilience, rooting, and overall turf health.

- › Supports natural plant defence responses and physiological resilience.
- › Stimulates root growth and accelerates turf recovery.
- › Improves nutrient uptake and rhizosphere balance.
- › Best used proactively to support turf health under stress.
- › Compatible for use alongside conventional treatments.

**Pack Sizes:** 4L can

## Brewster Max

**Contains:** Beneficial fungi (*Phanerochaete chrysosporium*, *Trichoderma reesei*) and bacteria (*Bacillus*, *Paenibacillus*, *Pseudomonas*), supported with maltodextrin powder.

**Brewster Max** is a microbial enhancer for compost tea brewing, formulated with synergistic bacteria and fungi to improve nutrient cycling and organic matter breakdown.

- › Breaks down thatch and organic residues.
- › Releases bound nutrients (phosphorus, trace minerals).
- › Promotes fungal dominance in the rhizosphere for fine grasses.
- › Supplies complex carbohydrates to sustain microbial activity.
- › Enhances compost tea effectiveness in high-performance turf.

**Pack Sizes:** 200gm



### Green Doctor

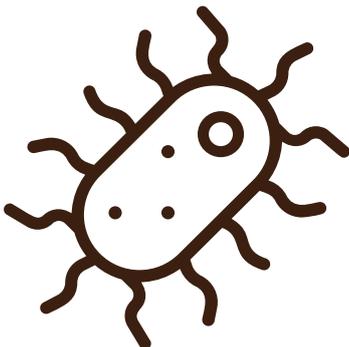
**Contains:** Oomycete *Pythium oligandrum*.

**Green Doctor** is a biological turf support product based on the naturally occurring microorganism *Pythium oligandrum*. It works by establishing itself within the rootzone and on plant surfaces, interacting with the soil microbiome and stimulating plant physiological responses that contribute to healthier, more resilient turf.

Through these biological interactions, Green Doctor supports balanced soil biology and encourages stronger root development and plant vitality. Its residue-free profile makes it suitable for use across a wide range of amenity turf situations without restricting surface use, fitting easily into sustainable turf management programmes.

- › Establishes beneficial biological populations within the rootzone.
- › Supports natural plant response pathways linked to resilience and recovery.
- › Encourages stronger rooting and improved plant vigour.
- › Helps maintain balanced soil biology under intensive management.
- › Suitable for integration into biological and sustainability-focused programmes.

**Pack Sizes:** 100g



### Brewster Life

**Contains:** Phanerochaete (white-rot fungi genus)

**Brewster Life** is a concentrated microbial biostimulant for compost teas, designed to shift the soil toward a fungal-dominant biology for perennial turf, especially grasses like rye, bent and fescue.

- › Supports enzymatic breakdown of lignin-rich woody material within the thatch layer.
- › Promotes vigorous rooting and nutrient uptake.
- › Enhances natural microbial balance and nutrient cycling.
- › Complements compost tea programmes.
- › Supports turf resilience under stress.

**Pack Sizes:** 1kg

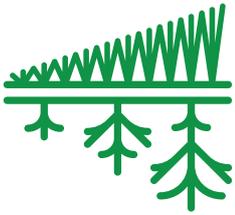
### Endo Myco (Soluble)

**Contains:** Endo-mycorrhizae fungi and beneficial bacteria.

**Endo Myco** is a soluble inoculant supplying endo-mycorrhizal fungi (*Glomus spp.*) alongside beneficial bacteria (including *Bacillus*, *Pseudomonas*, and *Azotobacter*). These organisms form symbiotic associations with turf roots, expanding the absorptive surface area and improving nutrient and water uptake.

- › Improves establishment and rooting of seedlings and young turf.
- › Expands effective root surface area for enhanced water and nutrient absorption.
- › Strengthens tolerance to drought, salinity, and compaction stress.
- › Supports microbial diversity and a more resilient soil ecosystem.
- › Enhances recovery after renovation or overseeding.

**Pack Sizes:** 1kg



# Biostimulants

## Unlocking Natural Potential in Turfgrass.

Biostimulants play a vital role in Soil Biology's system-based approach, working in harmony with the plant, the soil, and its microbial life. Unlike traditional inputs that simply add nutrients or mask stress, biostimulants **stimulate the plant's own natural processes**—improving growth, resilience, and recovery.

From promoting deeper rooting and stronger cell structure, to enhancing oxygenation and microbial activity in the rhizosphere, Soil Biology biostimulants are designed to support turfgrass where it matters most. They help plants respond more effectively to stress, improve nutrient uptake, and create playing surfaces that are healthier, more resilient, and more sustainable.

Developed for professional use, our biostimulant range is carefully formulated for **ease of application, proven compatibility, and reliable performance** in demanding turf environments. Whether you're tackling thatch build-up, encouraging microbial activity, or building natural plant defences, biostimulants bring out the best in your turfgrass.

## Benefits of Soil Biology Biostimulants:

- › **Stimulate natural processes** – Enhance plant growth, vigour, and recovery.
- › **Improve nutrient uptake** – Make applied inputs more efficient and effective.
- › **Boost stress resilience** – Help turf withstand drought, wear, frost, and disease.
- › **Support microbial activity** – Feed beneficial soil biology for lasting soil health.
- › **Strengthen plant defences** – Activate systemic resistance for healthier turf.
- › **Professional performance** – Easy to apply, tank-mix compatible, and reliable in all conditions.

[www.soilbiology.uk](http://www.soilbiology.uk)



## OxyTurf

**Contains:** *Poaceae* extract, plant extracts, hydrogen peroxide, *Eucalyptus globulus* extract.

**OxyTurf** is a speciality biostimulant formulated to deliver slow-release oxygen and stimulate aerobic microbial activity in the rootzone. By opening up compacted layers and improving percolation, it ensures excess water can move more freely through the soil profile, reducing waterlogging, anaerobic conditions, and black layer formation. At the same time, improved oxygenation enhances microbial digestion of organic matter, limiting thatch build-up and restoring a balanced soil environment.

This dual action of oxygen release and water management creates a healthier rhizosphere where roots can expand more deeply, access nutrients efficiently, and better withstand stress. Turf treated with OxyTurf shows stronger rooting, improved surface firmness, and more consistent playing quality, even under heavy wear or persistently wet conditions.

**Pack Sizes:** 20L

### Key Benefits

- › Improves water movement, drainage, and percolation in compacted soils.
- › Reduces black layer, thatch, and anaerobic conditions.
- › Stimulates beneficial microbial activity and organic matter breakdown.
- › Increases root mass, nutrient uptake, and overall turf vigour.
- › Promotes more resilient, high-performance playing surfaces.

## The Visible Difference

**In recent UK applications, OxyTurf has demonstrated clear, visible improvements in soil condition.**

Site observations and profile inspections showed a noticeable reduction in surface sponginess, black layer presence, and excess moisture retention, resulting in a cleaner, firmer soil profile and improved playability.



Soil profile comparison following repeated OxyTurf applications, 10L/Ha/Monthly  
London site | February – September 2025



Soil profile comparison following repeated OxyTurf applications, 10L/Ha/Monthly  
Essex site | December 2024 – May 2025

### Real-world results

Used across UK sites to improve drainage, oxygenation, and surface firmness in challenging, high-moisture conditions.

*"OxyTurf offered us very positive results with a visible reduction in thatch and black layer recorded over two months."*

*"We have a very hard stadium with high moisture levels. I've used OxyTurf for over a year now to help keep the soil dry and bring disease pressure down. I see good results, good grass governance and the pitch is getting better. It fits nicely in our green products programme"*

# Chitosan FD 10%

**Contains:** Chitosan, acetic acid, vinegar.

**Chitosan FD 10%** is a soluble derivative of chitin, extracted from fungal cell walls, that supports fungal dominance in the soil, strengthens turf defence, and improves resilience against pests and stress. It is approved for Organic Agriculture (EU).

**Pack Sizes:** 5L

## Key Benefits

- › Enhances establishment of beneficial fungi in the rootzone.
- › Activates turf's natural defence systems.
- › Aids recovery from nematodes, pest damage, and disease.
- › Improves tolerance to drought and frost stress.
- › Enhances seed germination and establishment.

# SpringLoad by Soil Biology

**SpringLoad 3.0.5** provides a balanced carbohydrate and amino acid package for everyday stress management, while **SpringLoad Aminos + Triacantanol** delivers an advanced formulation with added growth stimulation for higher performance programmes.

## SpringLoad 3.0.5

**Contains:** Amino Acids + Nitrogen and Potassium.

**SpringLoad 3.0.5** is a biostimulant providing carbohydrates, amino acids, and nitrogen to intensively managed turf, supporting rapid recovery and resilience.

- › Supplies amino nitrogen via foliar uptake.
- › Supports stress recovery and turf vigour.
- › Enhances microbial activity and rootzone health.
- › Promotes balanced growth under high-pressure management.

**Pack Sizes:** 20L, 100L, 200L, 600L, 1000L

## SpringLoad Aminos + Triacantanol

**Contains:** Amino Acids + Triacantanol.

**SpringLoad Aminos + Triacantanol** is a triple-filtered, carbon-based liquid fertiliser made from fermented plant materials. It provides a broad spectrum of amino acids alongside humic extracts and the powerful natural growth stimulator, triacantanol. Together, these components reduce the need for synthetic nitrogen while driving healthier, more resilient turf growth.

- › Supplies a wide range of amino acids to enhance plant metabolism and stress recovery.
- › Rich in glutamic acid to support growth and carbohydrate production.
- › Humic extracts buffer nutrients and support beneficial soil biology.
- › Triacantanol boosts photosynthesis, protein synthesis, and enzyme activity — accelerating root and shoot growth while improving turf density and colour.

**Pack Sizes:** 20L, 100L, 200L, 600L, 1000L





### Powercrop-K

**Contains:** Ethanol, glycerine, bioflavonoid mixture, fatty acid blend + potassium.

**Powercrop-K** is a natural biostimulant designed to activate turf's defence systems and improve resilience under stress. By stimulating plant metabolism and enhancing microbial activity in the rhizosphere, it helps turf maintain quality and consistency with reduced reliance on chemical inputs.

- › Supports recovery from abiotic stress such as drought, temperature extremes, and compaction.
- › Enhances photosynthesis and energy use efficiency.
- › Improves nutrient uptake and fertiliser efficiency.
- › Fully biodegradable, safe, and compatible with sustainable management programmes.

**Pack Sizes:** 1L

### MarineVera

**Contains:** Salicylic acid, natural marine compounds, macronutrients and micronutrients.

**MarineVera** is a marine-derived biostimulant produced in a highly oxygen-rich, mineral-dense environment. It supports turf productivity, rooting, and recovery by activating natural defence pathways and improving nutrient efficiency.

- › Stimulates deeper, more vigorous root development.
- › Enhances fertiliser uptake when applied in combination.
- › Helps mitigate abiotic stress including cold, frost, heat, wind, and drought.
- › Aids recovery from herbicide and spray-related stress.
- › Supports natural plant defence responses and overall turf resilience.

**Pack Sizes:** 20L

### Organic DE. Si MK 3

Si 12.5%

**Contains:** Calcined diatomaceous earth.

**Organic DE. Si MK 3** is a micronised suspension of diatomaceous earth (DE) supplying plant-available silicon and calcium to strengthen cell walls and enhance turf resilience.

The fine particle size allows efficient foliar and soil uptake, while soil microbes convert the silicon into monosilicic acid—the form directly absorbed by plants. Once incorporated into cell walls, this silicon reinforces turf structure, improves photosynthetic efficiency, and activates natural defence pathways, delivering greater resistance to stress and disease.

- › Supplies highly available silicon (as monosilicic acid).
- › Strengthens cell walls for tougher, more resilient turf.
- › Enhances photosynthetic activity and stress tolerance.
- › Supports stronger, healthier turf under challenging conditions.

**Pack Sizes:** 12.5 L

### Wood Vinegar

**Contains:** Organic acid compounds.

**Wood Vinegar** is a natural liquid by-product of wood carbonisation, containing more than 200 organic compounds such as acetic acid, phenols, and ketones. Long used in traditional agriculture, it is now recognised as a powerful biostimulant for professional turf.

By creating a more favourable rootzone environment, Wood Vinegar stimulates beneficial microbes, suppresses harmful pathogens, and improves nutrient efficiency. The result is healthier soils, stronger rooting, and turf that recovers more quickly under stress.

- › Rich in organic acids and bioactive compounds that stimulate soil biology.
- › Improves nutrient uptake and reduces fertiliser losses.
- › Acts as a natural antimicrobial.
- › Supports stronger root growth and turf recovery.
- › Enhances soil structure and moisture retention.
- › Sustainable and fully biodegradable.

**Pack Sizes:** 20L

## HumiFeast

**Contains:** Humic and Fulvic Acids + carbon base

**HumiFeast** is a liquid blend of humic and fulvic acids specifically developed for sand-based amenity rootzones. It increases nutrient retention and carbon levels without affecting surface firmness or drainage, helping to maintain high-quality, playable turf under intensive management.

- › Increases cation exchange capacity (CEC) in low-retentive sandy soils.
- › Chelates nutrients, reducing leaching losses and improving fertiliser efficiency.
- › Provides a high-quality carbon source to stimulate soil microbial activity.
- › Maintains surface firmness and consistent playability.
- › Supports stronger rooting, nutrient uptake, and turf resilience.

**Pack Sizes:** 20L

## OrganoFeast

**Contains:** Humic and Fulvic Acid + carbon base.

**OrganoFeast** is a concentrated source of natural humic and fulvic acids, designed to improve nutrient efficiency and support soil biology across all amenity turf. By supplying a rich carbon base, it feeds beneficial microbes, reduces nutrient losses, and strengthens the rootzone environment for more resilient, consistent turf.

- › Enhances nutrient uptake by chelating and translocating nutrients within the plant.
- › Provides stable organic carbon, the primary food source for soil microbes.
- › Reduces nutrient leaching, improving fertiliser efficiency and sustainability.
- › Improves turf vigour and consistency across a wide range of soil types.
- › Supports long-term soil health and resilience under intensive turf management.

**Pack Sizes:** 20L, 100L, 200L, 600L, 1,000L

## Bio Fulvic 70% WSP

**Contains:** Fulvic Acids from leonardite source.

**Bio Fulvic 70% WSP** is a highly concentrated, water-soluble fulvic acid derived from leonardite. As one of the most active fractions of humic substances, fulvic acid plays a key role in soil and plant health by stimulating biological activity, improving nutrient uptake, and supporting plant growth at all stages.

- › Boosts beneficial microbial activity in the rhizosphere.
- › Enhances seed germination and early establishment.
- › Improves root development and nutrient absorption.
- › Stimulates plant enzymes and metabolic activity.
- › Increases chlorophyll production and plant respiration.
- › Supports overall plant health and quality through enhanced nutrient efficiency.

**Pack Sizes:** 25kg

## Which fulvic product best fits your turf programme?

Each product delivers humic and fulvic acids in a different way—choose the option that best matches your soil, application method, and performance goals.

Product	Best For	Main Benefit	Application Focus	Speed of Effect
<b>HumiFeast</b>	Sand-based rootzones (pitches, greens)	Increases CEC and nutrient retention without affecting firmness	Soil / rootzone applications	Medium-long term
<b>OrganoFeast</b>	All soil types, broad programmes	Provides stable organic carbon to boost microbes and fertiliser efficiency	Soil and foliar	Medium term
<b>Bio Fulvic 70% WSP</b>	Seed germination, establishment, rapid stimulation	Fast-acting soluble fulvic acid for quick nutrient uptake and metabolic boost	Foliar or soil drench	Fast-acting



### Sea2Soil

**Contains:** amino acids, natural oils and trace minerals

**Sea2Soil** is a hydrolysed salmon-based biostimulant providing amino acids, oils, and trace minerals that enrich the soil food web. By supporting fungal dominance and microbial activity, it promotes balanced nutrient cycling and resilient turf growth.

- › Supplies a broad spectrum of amino acids for plant metabolism and stress recovery.
- › Natural oils and fats encourage beneficial fungi and suppress harmful organisms.
- › Provides trace minerals that enhance turf colour, vigour, and density.
- › Improves soil biology, nutrient cycling, and organic matter breakdown.
- › Sustainable and renewable input with a low environmental footprint.

**Pack Sizes:** 20L



### Naturamin-Plus

Aminos 40%, N 7.5%

**Contains:** Free L-form amino acids (40%) + essential trace elements (B, Cu, Fe, Mn, Mo, Zn)

**Naturamin-Plus** is a liquid concentrated amino acid and micronutrient biostimulant designed to boost turf resilience and recovery. By supplying 100% plant-available amino acids alongside key trace elements, it enhances photosynthesis, improves water balance, and supports rapid recovery under stress.

- › Supplies 100% free L-form amino acids for instant uptake.
- › Improves chlorophyll production and photosynthetic efficiency.
- › Strengthens turf resilience to drought, wear, and environmental stress.
- › Provides balanced trace elements for colour, metabolism, and growth.
- › Supports faster recovery and consistent turf performance.

**Pack Sizes:** 4 × 5L

### Naturamin WSP

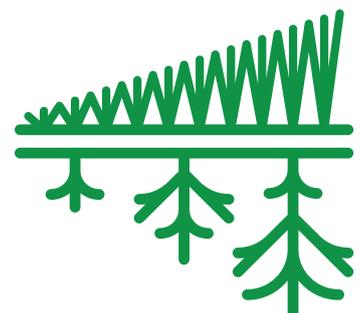
Aminos 80%, N 12%

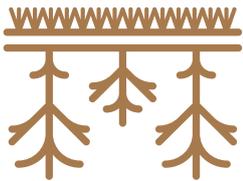
**Contains:** Protein hydrolysates.

**Naturamin WSP** is A highly concentrated amino acid formulation (80% w/w), rich in Proline and Serine, providing strong protection against abiotic stress and environmental extremes.

- › Protects turf from drought, salinity, heat, and frost.
- › Supports recovery from wear and pest pressure.
- › Provides proline and serine for enhanced stress tolerance.
- › Ideal for high-demand turf environments.

**Pack Sizes:** 4 × 5L





# Rootzone Treatments

## **Restore Balance. Revive Life. Sustain Soil Health.**

On high-performance golf courses and sports pitches, the pressure to maintain perfect surfaces often leads to pushing turf beyond its natural limits with synthetic fertilisers and pesticides. Over time, these inputs leave residues that linger in the rootzone, suppressing microbial life and restricting root respiration — ultimately eroding the soil's natural capacity to sustain healthy turfgrass.

At Soil Biology, we flip that paradigm. Our Rootzone Treatments don't just mask symptoms; they revitalise the invisible engine that powers thriving turf—its living soil.

Soil Biology's Rootzone Treatments are designed to detoxify, rebalance, and rebuild rootzone environments. By eliminating harmful residues and restoring biological activity, we create a healthier rootzone that supports deeper rooting, improved soil structure, and naturally stronger, more resilient turfgrass.

## **Benefits of Soil Biology Rootzone Treatments:**

- › **Detoxifies the rootzone**
  - Helps soils recover naturally from chemical build-up.
- › **Improves soil structure**
  - Enhances water retention and aeration in sandy profiles.
- › **Strengthens rooting** – Promotes deeper, healthier root systems.
- › **Reduces chemical reliance**
  - Builds long-term sustainability into turf management.

[www.soilbiology.uk](http://www.soilbiology.uk)



# SB Foundation HFU

**Contains:** Leonardite granule rich in humic, fulvic, and ulmic acids, plus trace minerals.

**SB Foundation HFU** is a premium rootzone conditioner built on a concentrated matrix of humic, fulvic, and ulmic acids combined with trace minerals. This unique blend improves nutrient availability, energises microbial life, and drives stronger root development—helping turf establish a more resilient and better-structured soil profile.

Each fraction of organic acids plays a complementary role: humic acids support nutrient exchange and microbial balance; fulvic acids are rapidly absorbed to boost metabolic efficiency; while ulmic acids chelate and mobilise key minerals to stimulate new root formation. Together, they create a powerful foundation for healthier soils and stronger turf.

**Pack Sizes:** 22.67kg paper bags

### Key Benefits

- › Delivers a complete spectrum of organic acids plus trace minerals.
- › Enhances cation exchange capacity (CEC) to hold nutrients and reduce losses.
- › Stimulates beneficial microbial activity, driving nutrient cycling.
- › Provides hormone-like triggers to boost metabolism and rooting.
- › Improves aeration and water retention, particularly in sandy profiles.

## Tri-Umvirate

**Contains:** Diatomaceous Earth, Calcined and Crystalline Silica (Cristobalite).

**Tri-Umvirate** is a lightweight, porous granular amendment designed to permanently improve soil structure and rootzone performance. Made from heat-treated mineral granules, it creates stable pore spaces that resist compaction and remain as a lasting part of the soil.

Its high surface area and network of pores act as micro-reservoirs, holding both air and water. The result is improved oxygen availability, better drainage, balanced moisture retention, and enhanced conditions for deeper rooting and microbial activity—delivering stronger, more resilient turf across varied soil types.

- › Improves aeration, boosting oxygen flow to roots.
- › Reduces compaction by introducing stable pore space.
- › Balances water dynamics—holding essential moisture while aiding drainage.
- › Permanent amendment: structurally stable, non-decomposing granules.
- › Versatile: adds friability in clay soils and moisture retention in sandy soils.
- › Professional-grade particle sizing for rootzone blends and topdressings.

**Pack Sizes:** 500kg

## Pholigo

**Contains:** Calcium (two forms), amino acids, micro-elements, chitin.

**Pholigo** is a soil conditioner with a unique honeycomb micro-pore structure, designed to improve soil texture, moisture retention, and microbial activity.

- › Improves soil aeration, water retention, and nutrient balance.
- › Provides calcium for cell wall strength and improved disease resistance.
- › Delivers amino acids and micro-elements for plant health.
- › Natural chitin stimulates plant chitinase production, boosting immune response.
- › Encourages beneficial microbes and fungi (e.g. Trichoderma, Actinomycetes).
- › Helps control nematodes naturally.

**Pack Sizes:** 25kg

## ITA Zeolite (Chabazite)

**Contains:** Hydrated sodium/calcium aluminosilicate mineral. Potassium, Sodium, Calcium: 7–10%, Magnesium: trace, Silicon: 21–46%, Oxygen: ~57%.

**ITA Zeolite (Chabazite)** has a crystalline, cage-like structure, which provides exceptional cation exchange properties, improving nutrient retention, water management, and soil aeration.

- › Retains and exchanges essential nutrients (K, Ca, Mg, Na).
- › Improves water distribution and percolation in sandy or compacted soils.
- › Enhances microbial habitat and root growth.
- › Eco-friendly and long-lasting mineral amendment.

**Pack Sizes:** 20kg, 500kg

## Naturcomplet- G

**Contains:** Total Organic Matter & Humic Acids (~35%), Fulvic Acids (~5%), Potassium Oxide (K<sub>2</sub>O) (~5%), Nitrogen (N) (~1%)

**Naturcomplet-G** is a granulated organic soil improver derived from leonardite, supplying humic and fulvic acids to improve soil structure, nutrient retention, and rootzone performance.

- › Loosens compacted soils, improving aeration and water retention.
- › Increases cation exchange capacity (CEC), reducing nutrient leaching.
- › Enhances availability of macro- and micro-nutrients.
- › Builds stable organic matter to support soil biology.
- › Approved for organic use (EU EcoLabel).
- › Easy to apply mechanically; compatible with blended fertilisers.

**Pack Sizes:** 25kg

## Gypsum GG

**Contains:** Granulated gypsum (calcium sulphate).

**Gypsum GG** is a premium gypsum granule supplying calcium and sulphur, improving soil friability and structure while supporting plant nutrition.

- › Provides calcium to strengthen plant cell walls and improve disease resistance.
- › Supplies sulphur, vital for protein synthesis and chlorophyll formation.
- › Flocculates clay soils, improving aeration and water movement.
- › Promotes microbial activity and organic matter breakdown.
- › Neutral impact on soil pH (NV = 0).

**Pack Sizes:** 20kg bags

## Dolomitic Lime

**Contains:** Calcium carbonate with magnesium carbonate.

**Dolomitic Lime** is a natural amendment for correcting acidic soils, improving pH balance, and supplying magnesium for stronger turf growth. Ideal for use in spring and autumn.

- › Raises soil pH to neutralise acidity.
- › Provides magnesium to support chlorophyll production and plant vigour.
- › Particularly effective in clay-heavy soils resistant to pH adjustment.
- › Enhances nutrient uptake efficiency and soil structure.

**Pack Sizes:** 25kg





# Soil and Water Management

## Optimising Moisture for Healthy, Resilient Turf

Water is one of the most valuable resources in turf management, yet it often works against us. Compaction, hydrophobic soils, and uneven infiltration can all leave areas waterlogged while others dry out—restricting root growth, nutrient uptake, and playability.

Soil Biology's **Soil and Water Management** range is designed to put you back in control of moisture. Our products improve infiltration, drainage, and water distribution, while also addressing pH and bicarbonate issues that reduce the effectiveness of fertilisers and pesticides. By enhancing the soil's hydraulic properties, we make every drop of water—and every input—work harder for your turf.

With solutions that reduce runoff, alleviate localised dry spots, and support deeper rooting, Soil Biology helps turf managers create more consistent, sustainable surfaces that perform in all conditions.

## Benefits of Soil Biology Soil and Water Management products:

- › **Improve infiltration and drainage** – Reduce waterlogging and compaction issues.
- › **Sustainable water use** – Conserve resources and maintain high-quality surfaces year-round.
- › **Support deeper rooting** – Better access to water and nutrients in the profile.
- › **Reduce runoff and leaching** – Make every drop of irrigation and rainfall count.
- › **Boost input efficiency** – Get more from the nutrients and treatments you apply.
- › **Overcome hydrophobic soils and dry spots** – Achieve more consistent turf moisture.

[www.soilbiology.uk](http://www.soilbiology.uk)



## Transformer

**Contains:** Biodegradable surfactants including secondary C11–15 alcohol ethoxylates, sweet orange extract, and C12–14 alcohol ethoxylated sulphates (sodium salts).

**Transformer** is a professional soil conditioner designed to improve water movement and retention across all soil types. By modifying the hydraulic properties of soil, it enables water to infiltrate compact layers, spread evenly through the rootzone, and remain available to plants for longer.

This action reduces waterlogging, runoff, and leaching in heavier soils, while overcoming hydrophobicity in sandy or dry conditions. The result is more consistent soil moisture, healthier root development, and greater efficiency of applied fertilisers and crop protection products.

Transformer works by lowering water's surface tension, allowing it to penetrate micro-pores and compacted zones that would otherwise repel moisture. With better infiltration and distribution, turf can achieve deeper rooting, improved nutrient uptake, and enhanced resilience to stress.

**Pack Sizes:** 10L and 20L

### Key Benefits

- › Improves water infiltration into compacted and heavy soils.
- › Reduces waterlogging, runoff, and nutrient leaching.
- › Enhances water distribution in sandy or hydrophobic profiles.
- › Promotes deeper, more uniform root development.
- › Increases the efficiency of soil-applied fertilisers and pesticides.
- › Improves aeration and overall soil structure.

## Aquaphloem

**Contains:** Amide Nitrogen, Zinc, Magnesium, Molybdenum, Boron, Manganese, Copper, Sulphur.

**Aquaphloem** is a comprehensive irrigation water conditioner that acidifies, releases bound nutrients, and supplies additional amide nitrogen and micronutrients.

- › Lowers irrigation water pH to enhance nutrient availability.
- › Releases nutrients locked by bicarbonates in hard water.
- › Improves soil structure in calcium- and magnesium-rich soils.
- › Supplies amide nitrogen and micronutrients for improved plant nutrition.
- › Enhances overall fertiliser and pesticide efficiency.

**Pack Sizes:** 100ml, 20L, 200L, 600L, 1000L

## ADD-apter

**Contains:** Citric acid.

**ADD-apter** is a pH corrector and water conditioner that neutralises hardness and alkalinity in spray water, ensuring maximum effectiveness of nutrient and protection products.

- › Buffers alkaline, hard, or brackish water for spray compatibility.
- › Neutralises calcium and magnesium bicarbonates.
- › Improves performance of pesticides and foliar feeds.
- › Prevents insoluble deposits and spray blockages.

**Pack Sizes:** 100ml, 20L, 200L

## Spray Fix

**Contains:** *P-menth-1-en-8-ol* (pine oil derivative).

**Spray Fix** is a spray additive derived from pine oil that improves adhesion, droplet distribution, and rainfastness of foliar applications.

- › Ensures droplets adhere to leaf surfaces instantly.
- › Improves canopy penetration and coverage.
- › Reduces droplet shatter on impact.
- › Enhances uptake and retention of nutrients and sprays.
- › Extends effectiveness in wet conditions with greater rainfastness.

**Pack Sizes:** 5L



# Infuser MAX vs All Weather MAX

### Two wetting solutions with different roles in turf management:

- › **Infuser MAX:** Natural plant- and soil-active wetter. Improves water and nutrient uptake, stimulates microbial activity, and helps turf recover from stress.
- › **All Weather MAX:** High-strength synthetic surfactant. Optimises soil water infiltration and drainage, alleviating compaction and hydrophobic conditions.

## Infuser MAX

**Contains:** Natural plant extracts (yucca)

**Infuser MAX** is a natural yucca extract rich in saponins — plant-derived surfactant compounds that reduce water surface tension and improve the uptake of water and nutrients. Used in irrigation or as a foliar spray, Infuser MAX enhances water movement and nutrient efficiency, while supporting plant recovery from stress. As a natural alternative to synthetic wetting agents, it provides effective soil and foliar benefits in a fully biodegradable form.

- › Improves water and fertiliser penetration in the soil profile.
- › Softens compacted soils and enhances infiltration.
- › Reduces surface tension of foliar sprays for better coverage and absorption.
- › Increases uptake of foliar feeds, trace elements, and pesticides.
- › Enhances seed germination and accelerates transplant establishment.
- › Supports recovery from stress conditions such as drought, heat, alkalinity, or nutrient imbalance.
- › Natural, safe, and biodegradable alternative to synthetic wetting agents.

**Pack Sizes:** 5L

## All Weather MAX

**Contains:** Dipropylene Glycol Methyl Ether

**All Weather MAX** is a concentrated anionic surfactant wetting agent for professional turf, designed to improve infiltration, reduce waterlogging, and combat hydrophobic soil conditions.

- › Improves water penetration and percolation through compact layers.
- › Reduces waterlogging and anaerobic conditions.
- › Enhances rooting, nutrient uptake, and aerobic soil biology.
- › Alleviates dry patch and inconsistent moisture distribution.

**Pack Sizes:** 10L





# Turf Hardeners

## Fortifying Turf from the inside out.

High-performance turf is expected to deliver consistent playability under heavy use, variable weather, and constant disease pressure. To meet these demands without relying on repeated chemical intervention, turf needs strength and resilience built in. That's where turf hardeners come in.

Soil Biology's **Turf Hardener** range works by strengthening turfgrass from within—supporting stronger cell structure, balanced growth, and the plant's natural defence systems. This internal resilience helps turf cope with stress from wear, drought, cold, and disease, while maintaining density and surface quality.

Designed for professional turf managers, our hardeners integrate easily into existing programmes, improving turf consistency, speeding recovery, and reducing the need for reactive chemical use. The result is playing surfaces that are tougher, more sustainable, and ready to perform throughout the season.

## Benefits of Soil Biology Turf Hardeners:

- › **Strengthen natural defences**  
– Improve turf resilience to stress and disease.
- › **Support stronger growth**  
– Encourage balanced development above and below ground.
- › **Enhance durability** – Help turf withstand wear, traffic, and challenging conditions.
- › **Reduce chemical reliance** – Build plant resilience naturally, cutting the need for reactive treatments.
- › **Faster recovery** – Promote quicker bounce-back after stress or damage.
- › **Season-long consistency** – Maintain density and surface quality in all conditions.

[www.soilbiology.uk](http://www.soilbiology.uk)



# SB Fortress

6N, 0.6K, 1.2Mg, 2SA

**Contains:** Amide complexed nutrients and trace elements plus Salicylic Acid.

**SB Fortress** is a salicylic acid-enhanced nutrient formulation developed to strengthen turf from within by activating its natural defence pathways.

Salicylic acid acts as a powerful signalling molecule, priming the plant to mount stronger biochemical responses against both disease and abiotic stress. This triggers structural and physiological changes that reinforce cell integrity, accelerate recovery, and promote long-term resilience.

Alongside its defence-priming effect, SB Fortress supplies amide-complexed nitrogen, potassium, magnesium, and trace elements in a highly efficient form that is readily absorbed and uniformly distributed within the plant. This delivery system ensures nutrients are immediately available to support photosynthesis, root development, and canopy performance, particularly during periods of stress or cooler conditions when nutrient uptake is often restricted.

**Pack Sizes:** 20L, 100L, 200L

### Key Benefits

- › Elicits natural plant defences against both pathogens and environmental stresses.
- › Strengthens cell walls and improves structural integrity.
- › Provides efficient delivery of N, K, Mg, and trace elements through amide-complexing.
- › Enhances photosynthesis, transpiration, and rooting for sustained growth.
- › Supports rapid recovery from abiotic stress and mechanical wear.
- › Reduces reliance on chemical fungicides by harnessing natural defence mechanisms.

# SB Response

6N, 1Cu, 3Zn, 1.6MgO, 3.7Mn, 10SO<sub>3</sub> + Growth Promoter

**Contains:** Amide complexed nutrients and trace elements, plus plant extracts.

**SB Response** is a premium foliar multi-nutrient solution tailored for autumn and winter turf management. Using advanced amide-complexing chemistry, it delivers a balanced package of nitrogen, copper, zinc, magnesium, manganese, and sulphur trioxide, supported by stabilised plant extracts and phyto-elicitors. This combination ensures rapid leaf uptake, efficient internal distribution, and improved nutrient stability, even when root activity slows in cooler conditions.

The formulation not only strengthens turf growth and colour through the colder months, but also primes plants with biochemical signals that stimulate photosynthesis, boost shoot development, and promote rhizosphere-friendly root exudation. By supporting both above- and below-ground activity, SB Response helps turf maintain health, resilience, and consistent performance during periods of high stress and disease pressure.

**Pack Sizes:** 20L, 100L, 200L

### Key Benefits

- › Delivers complexed N, Cu, Zn, Mg, Mn, and SO<sub>3</sub> for fast, balanced absorption.
- › Promotes uniform shoot growth and sustained turf vigour.
- › Enhances photosynthesis and energy production under cool conditions.
- › Stimulates root exudation, indirectly improving microbial activity.
- › Improves plant resilience and recovery during high-stress periods.
- › Reduces nutrient losses through leaching, ensuring efficient uptake.

## OrthoSilicic Acid

**Contains:** Orthosilicic Acid (Si 70%-80%).

**OrthoSilicic Acid** is a stabilised liquid source of plant-available silicon in its most active form. It is rapidly absorbed by turf, strengthening cell walls, improving water regulation, and enhancing resilience to stress and disease.

- › Supplies bioavailable silicon for immediate uptake and action.
- › Reinforces cell walls, improving turf resistance to pests and disease.
- › Optimises stomatal function, supporting water use efficiency.
- › Enhances photosynthetic activity and energy availability.
- › Supports turf strength and quality under drought, cold, or wear stress.

**Pack Sizes:** 1L

## Phosphite P-K 32-23

**Contains:** Phosphite P-K 32-23.

**Phosphite P-K 32-23** is a highly available phosphorus and potassium fertiliser for rapid root establishment and stress resilience.

- › Promotes early root development.
- › Strengthens cell walls and stomatal function.
- › Enhances photosynthesis in low light.
- › Improves resilience to heavy early-season wear.

**Pack Sizes:** 10L, 20L

## Liquid Calcium

**Contains:** Amide complex calcium

**Liquid Calcium** is a low-N, amide-complexed liquid calcium product designed for fast, efficient uptake and cell wall strengthening, especially useful in soils with low biological activity or calcium mobility.

- › Rapidly corrects calcium deficiencies.
- › Improves cell strength and stress resilience.
- › Enhanced uptake with boron synergy.
- › Mixes easily into existing spray programmes.

**Pack Sizes:** 20L, 100L

## Skuta NM

Monopotassium Phosphite 50%

**Contains:** Phosphite P-K 30-20.

**Skuta NM** is a concentrated liquid fertiliser delivering readily available phosphorus and potassium to strengthen turf at key stages of growth. It supports establishment, rooting, and resilience under high wear or seasonal stress.

- › Promotes rapid rooting and establishment after seeding or renovation.
- › Strengthens cell walls and improves turf resilience to wear and traffic.
- › Enhances energy metabolism and stress tolerance during periods of heavy play.
- › Supports recovery after environmental stress or nutrient deficiency.
- › Ideal for use at the start of the season or during high-demand periods.

**Pack Sizes:** 20L

## TriBoost

**Contains:** Natural phytohormones

**TriBoost** is a natural phytohormone-based stimulant designed to accelerate turf growth and resilience by working with the plant's own biology. It supports rapid establishment, stronger root and shoot development, and improved tolerance to environmental stress—making it particularly effective at the start of the season and during recovery from challenging conditions.

- › Accelerates establishment by stimulating cell division for faster rooting and tillering.
- › Enhances stress resilience against drought, cold, and heavy wear.
- › Improves photosynthesis and chlorophyll production for stronger growth.
- › Supports rapid recovery after stress, damage, or slow growth.
- › Strengthens seasonal performance, ideal for early-season growth and overseeding.

**Pack Sizes:** 1 L



## Turf Hardeners

### ProSilicon

24% Si, 12%K

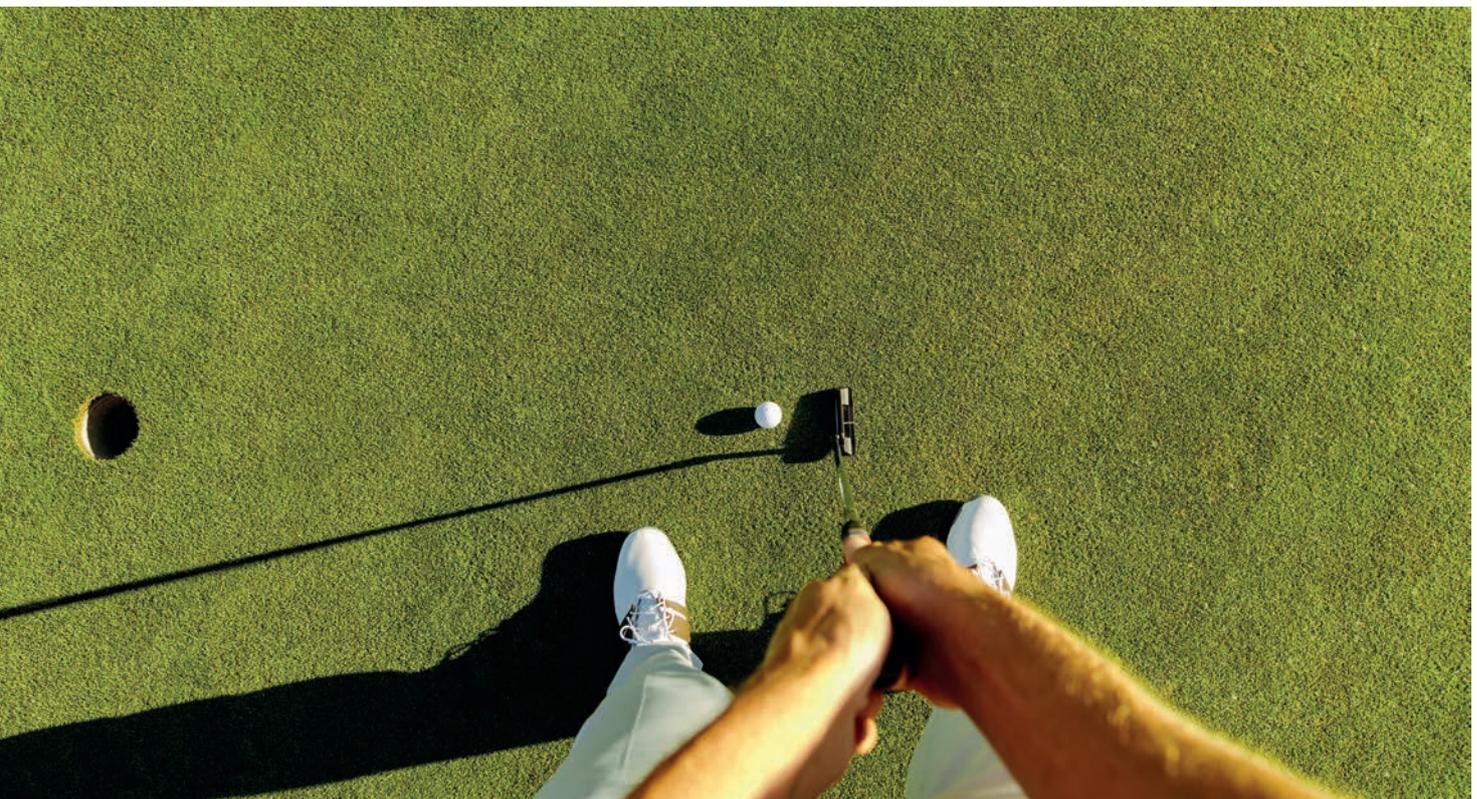
**Contains:** Potassium Silicate

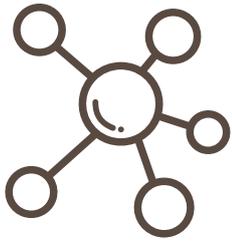
**ProSilicon** is a concentrated potassium silicate solution supplying turf with a readily available source of silicon and potassium. Once absorbed, silicon is deposited into leaves and stems, reinforcing cell walls and improving structural strength, while potassium optimises stomatal function and internal water movement.

This dual action enhances drought tolerance, supports upright growth, and strengthens natural defence against stress and wear. Particularly valuable during summer droughts or in preparation for high traffic and fine turf events, ProSilicon helps maintain surface quality and playability.

- › Provides a concentrated, plant-available source of silicon and potassium.
- › Strengthens cell walls and stems for more resilient turf.
- › Improves drought tolerance by enhancing water-use efficiency.
- › Enhances photosynthesis and stomatal regulation.
- › Supports turf quality during high-wear periods and assists in Poa seed head management.
- › Safe and compatible with most fertilisers, fungicides, and biostimulants (except nitrogen-based products).

**Pack Sizes:** 20L, 200L





# S-Chelates

## Micronutrients Made More Effective

Micronutrients are vital for healthy turf, but in many soils they become quickly locked up by clay, carbonates, phosphates, and organic matter—making them unavailable to the plant. Traditional fertilisers may supply these nutrients, but much of the value is lost before the turf can use it.

**Chelation changes that.** By binding micronutrients to natural organic acids, the S-Chelates range keeps them soluble and plant-available across a wide pH range and soil conditions. This means more of what you apply actually reaches the plant, whether absorbed through the leaf or the root.

The result is **better efficiency at lower application rates, less waste, and stronger turf health overall.** S-Chelates support improved rooting, greener swards, and greater resilience to stress and disease—while remaining soil-friendly and fully approved for organic use.

Practical and easy to apply, our soluble powder formulations are designed for professional turf managers who want maximum impact with minimum input.

## Soil Association Certified for Organic Growing

### Benefits of S-Chelates products:

- › **Superior availability** – Stay soluble and effective across a wide pH range.
- › **Efficient uptake** – More nutrients reach the plant through leaves and roots.
- › **Lower application rates** – Less product needed for the same or better results.
- › **Soil-friendly** – non-bioaccumulative and certified for organic use.
- › **Healthier, stronger turf** – Supports rooting, colour, stress tolerance, and natural defences.
- › **Practical in use** – Supplied as easy-to-handle, water-soluble powders.

[www.soilbiology.uk](http://www.soilbiology.uk)



### S-Chelate Ca 10% + 0.5% B

**S-Chelate Ca•B** provides calcium and boron in a stable, chelated form that stays available even in soils where clay, carbonates, or phosphates would normally lock them up. Calcium strengthens cell walls while boron supports root development and nutrient transport, together building stronger, more resilient turf.

- › Builds stronger cell walls for tougher, more resilient turf.
- › Promotes root growth and nutrient movement.
- › Remains soluble and available across a wide soil pH range.
- › Improves turf recovery from stress and wear.

**Pack Sizes:** 5kg

### S-Chelate Long Iron C13%

**S-Chelate Long Iron** supplies iron in a chelated ferrous form—the type most easily absorbed by turf. This ensures reliable uptake even in high pH soils where conventional iron quickly becomes insoluble, helping maintain deep green colour and healthy growth with lower application rates.

- › Rapidly corrects turf yellowing and chlorosis.
- › Enhances chlorophyll production and photosynthesis.
- › Stays available across a broad soil pH range.
- › Provides efficient iron nutrition at lower rates.

**Pack Sizes:** 5kg

### S-Chelate O-Zinc 13%

**S-Chelate O-Zinc** delivers zinc in a highly bioavailable chelated form, ensuring it remains effective in a wide range of soil conditions. Zinc is vital for enzyme activity, hormone regulation, and turf recovery, making it essential for density and growth.

- › Promotes strong root and shoot development.
- › Improves turf density and wear recovery.
- › Supports balanced hormone activity for growth.
- › Effective in soils where zinc is normally unavailable.

**Pack Sizes:** 5kg

### S-Chelate O-IPM Assist

**S-Chelate O-IPM Assist** is a blend of chelated magnesium, manganese, and zinc—three nutrients central to healthy turf metabolism. Together they improve photosynthesis, enzyme activity, and natural stress resistance, keeping turf balanced and resilient under pressure.

- › Magnesium boosts chlorophyll production for vibrant colour.
- › Manganese enhances disease resistance and enzyme activity.
- › Zinc supports growth and recovery.
- › Chelated form ensures consistent uptake across soil types.

**Pack Sizes:** 5kg

### S-Chelate O-Cu C13%

**S-Chelate O-Cu** provides copper in a chelated form that remains plant-available in diverse soil conditions. Copper is vital for enzyme activity, lignin production, and natural defence, helping turf withstand disease and environmental stress.

- › Strengthens cell walls for tougher turf.
- › Enhances natural defence against disease.
- › Supports essential metabolic and enzyme processes.
- › Reliable uptake at low application rates.

**Pack Sizes:** 5kg

### S-Chelate Micro 7 Plus

**S-Chelate Micro 7 Plus** is a complete blend of chelated micronutrients, designed to correct multiple deficiencies at once. Its balanced formulation supports colour, density, and resilience, helping turf perform consistently throughout the season.

- › Supplies a full spectrum of micronutrients including Cobalt and Nickel.
- › Supports healthy growth and uniform turf colour.
- › Improves disease resistance and stress tolerance.
- › Chelated form ensures efficient uptake in challenging soils.

**Pack Sizes:** 5kg



# Granular Fertilisers

## Reliable Nutrition with Lasting Impact

In professional turf management, granular fertilisers offer a dependable way to deliver balanced nutrition. Their uniform granule size and controlled release provide even coverage and steady growth across the surface, helping turf perform consistently over time.

By supporting strong root development and supplying nutrients over an extended period, granular fertilisers reduce the need for frequent applications—saving time and resources while maintaining turf health and quality.

## Micro-Granules, Maximum Impact

Our granular range takes these benefits further with precision-formulated micro-granules that maximise soil contact, improve nutrient availability, and fit seamlessly into professional turf programmes.

Whether establishing new turf or maintaining high-performance surfaces, Soil Biology's granular fertilisers provide the reliable foundation for healthier, more resilient grass.

## Benefits of Soil Biology Granular Fertilisers:

- › **Precision distribution** – Uniform granule size ensures consistent coverage.
- › **Time-saving** – Reduces application frequency compared to liquids.
- › **Balanced formulations** – Tailored blends for season-long turf support.
- › **Extended nutrition** – Supports growth over weeks or even months.
- › **Rootzone health** – Improves emergence, rooting, and stress tolerance.
- › **Efficient use** – Maximises nutrient uptake while minimising waste.

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## Granular Fertilisers

### ElixirS

**Contains:** NPK 12:11:18 + Mg + S + TE

**ElixirS** is a premium microgranular fertiliser providing balanced macronutrients, secondary nutrients, and trace elements for turf establishment and sustained growth.

- ▶ Balanced nutrient ratio in every granule.
- ▶ Highly soluble P for rapid root development.
- ▶ SOP-based potassium (chlorine-free) for turf safety.
- ▶ Magnesium for photosynthesis and turf colour.
- ▶ Sulphur for protein synthesis.
- ▶ Trace elements (B, Zn, Mn, Fe) for plant metabolism.

**Pack Sizes:** 1 L

### SuperStart

NP 10:35 + Mg + S + Zn

**Contains:** NP 10:35 + Mg + S + Zn

**SuperStart NP 10:35 + Mg + S + Zn** is a microgranular fertiliser for fast seedling establishment, providing high phosphorus and balanced nutrients.

- ▶ Accelerates germination and turf coverage.
- ▶ Promotes deep rooting for stress tolerance.
- ▶ Improves nutrient uptake and reduces weed competition.
- ▶ Provides precision distribution with 25x better coverage than standard fertiliser.

**Pack Sizes:** 25kg



### Brimstone 90

**Contains:** 90% elemental sulphur (3–4mm pastilles).

**Brimstone 90** is a slow-release sulphur fertiliser supplying season-long sulphur nutrition through microbial conversion.

- ▶ Steady sulphur supply for protein and chlorophyll synthesis.
- ▶ Improves nitrogen efficiency.
- ▶ Strengthens turf density and colour.
- ▶ Dust-free, uniform pastilles for easy spreading.

**Note:** Pastilles may remain visible on fine turf. For these areas, use Brimstone Minis or WDG.

**Pack Sizes:** 25kg

### Brimstone Minis

**Contains:** 90% elemental sulphur (2mm pastilles).

**Brimstone Minis** is a fine pastille sulphur product for faster microbial breakdown and more precise application on fine turf.

- ▶ Quicker sulphur availability compared to Brimstone 90.
- ▶ Ideal for fine turf (greens, stadiums, high-value pitches).
- ▶ Unlocks bound nutrients in the rhizosphere.
- ▶ Supports microbial activity and dense turf growth.

**Pack Sizes:** 25kg

### Brimstone WDG

**Contains:** 90% elemental sulphur (dispersible granule).

**Brimstone WDG** is a flexible sulphur product for spray or irrigation application, supplying both fast-acting sulphate and sustained release elemental sulphur.

- ▶ Provides immediate and long-term sulphur nutrition.
- ▶ Corrects deficiencies quickly while maintaining supply.
- ▶ Fits seamlessly into precision turf programmes.
- ▶ Supports chlorophyll production and recovery.

**Pack Sizes:** 25kg

# More Than Products – A Partnership

What truly sets Soil Biology apart isn't just our 100% biologically focused turf health products — it's the people behind them. Every programme is developed from an expert assessment of individual site conditions, supported by practical advice, honest conversations, and long-term thinking. Our team works closely with greenkeepers to solve problems, adapt to changing season and surface conditions, and support healthier, more resilient turf surfaces over the long term.

## Aldersey Green Golf Club

*"Our course sits on heavy clay soils, so drainage has always been a challenge. When it rains hard, the water just has nowhere to go.*

*We tried a couple of Soil Biology applications and within two days the difference was incredible. We'd actually had more rain, but instead the surfaces had firmed up and the water had gone. It was literally night and day.*

*The advice is brilliant. That's what sets them apart — it's not just selling a product, it's making sure it works for your course."*

**Course Manager, Aldersey Green Golf Club**



## Holywell Golf Club

*"What I like is that Soil Biology's approach isn't about one-off fixes — it's about building healthier greens all year round.*

*With roaming sheep on the land, we can't be spraying fungicides, and I prefer to work with nature. The programme and advice from Soil Biology are important in keeping disease pressure down, strengthening the turf, and building resilience naturally.*

*The advice is detailed and thorough, and they go through exactly what is needed and why — I trust them 100%. With over 30 years in greenkeeping, having a clear plan and consistent support makes a real difference. Even after the first few weeks of starting the programme, we noticed a change, with stronger growth and better clipping, and in 12 months' time I think we'll be in a completely different place."*

**Head Greenkeeper, Holywell Golf Club**





# SOIL BIOLOGY

## Invest in Soil

### Why Choose Soil Biology?

With over two decades of expertise, we lead the way in transitioning from chemical dependency to innovative, nature-driven approaches. Our proven methods deliver healthier, more sustainable turfgrass surfaces while supporting the environment.

### Our Dedication to Biological Solutions

We focus exclusively on natural, science-based solutions to enhance turf health. By harnessing the power of microbial activity, we improve nutrient cycling, reduce thatch, and strengthen disease resistance.

This sustainable approach builds a strong foundation for healthier, more resilient turf with fewer chemical inputs and a lighter environmental footprint.

### A Team of Experts You Can Trust

From addressing specific challenges with individual products to crafting year-round biological programmes, we work closely with you to develop customised strategies.

Our team of qualified agronomists and greenkeeping specialists brings decades of hands-on experience. We understand the challenges of turf management because we've faced them ourselves. This expertise allows us to provide practical, effective solutions tailored to your specific needs, backed up by reliable delivery and exceptional customer service.

### Contact us

Contact Soil Biology today to arrange a visit from one of our qualified turf agronomists.

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