

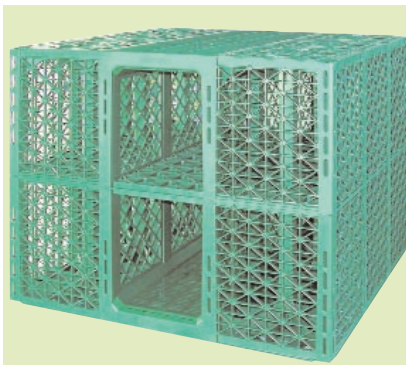
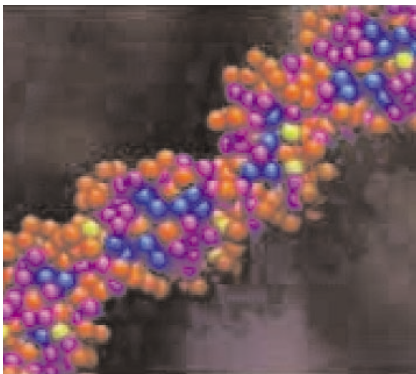
section four
 parksmanagement
 and **Sustainable Urban Drainage Systems (SUDS)**

What It Includes

This section includes innovative products which can help to reduce our reliance on inorganic chemicals, and to use machinery which recycles green waste.

It covers the following products:

- **Soil Biotechnology products**
- **Sustainable building cleaning**
- **Horticultural products**
- **Machinery**
- **Sustainable Urban Drainage Systems**

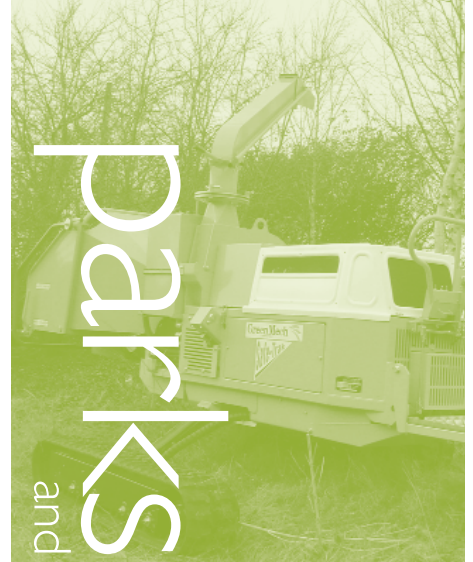


Sustainable Procurement Task Force

In 2005 the Government stated its intention in its Sustainable Development Strategy of putting the UK amongst the EU leaders in sustainable procurement.

To this end the Sustainable Procurement Task Force identified 10 high priority areas out of 174 Government spending areas. These included waste.

In this part of the catalogue we offer a range of products which include those which reduce the amount of green waste taken to landfill.



Soil Biotechnology

Soil biotechnology for healthy soils: for the fertilising of plants, cuttings and seedlings by using bacteria and fungi or other natural ingredients in place of chemicals.

How We Specified

- Products must be widely used and tested in the horticultural profession
- Products must be obtained from naturally occurring microbes, enzymes or plant extracts
- All products must be bio-degradable
- Must be able to provide references indicating that products have been used in a similar professional environment.

How Green are Soil Biotechnology Products?

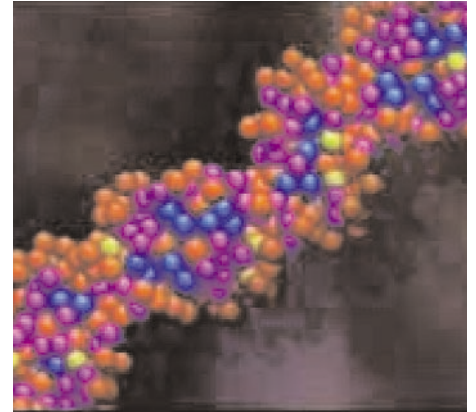
By directly using natural organisms to create horticultural products we are working with nature. This eliminates the use of chemical products which can harm the soil and the plant and animal life which rely on it.

Plants grown with the aid of soil micro-organisms found in their natural environment can be healthier and stronger than those relying on inorganic products which may harm the environment.

Description and Pricing

Products Descriptions are given to distinguish different types of product.

Prices are specified for individual units.



SOIL BIOTECHNOLOGY

A Premier Antagon 4-3-2

ALS Antagon is an organic 4-3-2 fertiliser enriched with antagonistic trichoderma fungi and containing 60% organic matter. (Free advice from ALS on request)

Its nutritional pellet is inoculated with antagonistic trichoderma fungi, increasing the biological resistance to fungal disease attack in the soil or compost.

310MICRO0600	Premier Antagon	25kg bag	per 25kg bag	£31.88
		40 x 25kg bags	per 25kg bag	£28.13

B Roots 15-3-8 Microbial Fertiliser - The Complete Plant Food

Roots Turf Food is a natural, organic based speciality fertiliser derived from plant and animal meals, and fortified with both slow release and quick release soluble nitrogen. It provides complete nutrition for turf grass and other shrubs or plants such as bedding, plus organic material to increase microbial activity in soil or sand. Its use inhibits several soil and disease problems and develops very healthy plants and root systems. Its micro-organisms convert nutrients for plant availability, inhibit plant and soil diseases and even fix nitrogen.

Roots 15-3-8 Microbial Fertiliser contains the following: 13 Strains of beneficial Micro-organisms; Roots Bio Stimulants; Amino Acids; Carbohydrates; Humic Acids; Kelp Seaweed Meal; Major and Minor Nutrients including trace elements.

310/HHI/0530	Roots fertiliser	20kg bag	per 20kg bag	£32.51
		50 x 20kg bags	per 20kg bag	£26.77

C SuperBio - Remedial Treatment

SuperBio Remedial Treatment contains a wide spectrum of specially selected and bred naturally occurring soil micro-organisms that break down and neutralise problems in the soil. It can be used in a number of situations for remediation on contaminated ground or for soil improvement. These include clearing up soil or turf contaminated with oils, petrol, pesticides, PCBs, PCEs, salts or even over applied fertilisers to correct soil conductivity. It rapidly breaks down salt contamination from road salt or sea salt spray or flood damage. It is also used to improve the soil structure of panned or chemically compacted soils (Often induced by over use of chemical fertilisers) and will crumble these soils making available to plants many key nutrients. This increased fertility is similar to that brought about by crop rotation or leaving ground fallow for several years.

310SUPRT0100	SuperBio	10L	per 10L	£81.09
		10 x 10L	per 10L	£66.78

D Mycorrhiza Roots™

Mycorrhiza Roots™ is a soluble powder in a 450 gram plastic resealable bag that is mixed in water (at the rate of 450 grams to 500 litres). This working solution can be injected into the soil, sprayed on loose medium or used to water in plants. It contains the widest available range of Mycorrhizae spores to suit all plant species and give them the best possible chance of survival in any situation. It also contains a biostimulant that is proven in university trials to improve transplanting survival, root growth and establishment. Improves plant health, growth and stress resistance, such as during drought.

310ROOTS0300	Mycorrhiza Roots	450gm sachet	per 45gm	£22.25
		1 x 12.2kg	per 12.2kg	£518.95

E Transplant 1-Step

This is a granular product that is sprinkled in with all your valuable plantings or mixed into container compost. It can also be used to rescue stressed established trees. It can be supplied in 113.5g sachets up to 12.2 kg containers.

Transplant 1 Step contains far more than just mycorrhizae. It also contains water storing polymer gel, a universally proven bio-stimulant package, ROOTS2® Bio-stimulant and a 2-2-2 organic fertiliser. Transplant 1 Step contains 17 species of Mycorrhiza, including cold-weather tolerant Rhizopogon, to provide broad spectrum application for increased nutrient uptake and enhance root systems.

310ROOTS0126	I-Step Transplant	113.5g sachet	per 113.5g	£1.63
		1 x 12.2kg container		£129.63

Prices are nett, (excluding VAT & Carriage).



Amenity Land Services Ltd

Long Lane,
Wellington,
Telford, Shropshire,
TF6 6HA

Paul Robinson (Soil Biotechnology enquiries)

Telephone: 01952 641 949
Fax: 01952 247 369
Email: sales@amenity.co.uk
Web: www.amenity.co.uk

SOIL BIOTECHNOLOGY

Planting products – Recycled and Biotech

Mycorrhizae are naturally occurring beneficial fungi that work in a symbiotic relationship with most plants.

A Mycormax® Bio Compost

ALS Natural Solutions® Mycormax® planting compost is a first class soil conditioner and planting compost for the planting of trees, shrubs & bedding plants. Used by many local authorities including gold medal winners for Britain in bloom competition.

It is a non-peat based compost consisting of a blend of recycled green waste and fine composted bark to produce a friable open compost ideal for the professional landscaper. Screened and graded to a 6mm sieve, the compost is then blended with an organic microbial fertiliser, bio-stimulants & mycorrhizae. The neutral to slightly acid pH makes this compost ideal for most landscaping and reclamation projects, with the exception of acidic loving plants, which require a low pH to thrive. Many testimonials available on request. Fantastic results!

750TPMC0700	Mycormax	40 x 70L (pallet)	per 70L £5.40
		Discounted 50+ m ³	per m ³ £23.50

B M-Roots

M-Roots™ is a special blend of natural organic ingredients in dryROOTS® plus 17 species of Endo and Ecto Mycorrhiza. M-Roots™ can be used on all plantings in disturbed or poor soil, including new construction and foundation planting.

M-Roots™ is sensible insurance for all valuable trees and shrubs. Can also be applied under new turf with great results.

310MROOT0100	M-Roots	11.35kg bag	per 11.35kg £30.54
		80 x 11.35kg bags	per 11.35kg £28.90

C MYCOTabs 20-10-15 Planting Tablets

MYCOTabs™ provide a 12 month slow release fertiliser as well as containing 18 species of Mycorrhizae for increased water and nutrient uptake. Each tablet incorporates vital macro and minor nutrients to solve the most common deficiency problems preventing green-up and growth. The MYCOTabs™ are similarly priced to the alternative products on the market. However because of the mycorrhiza and bio stimulant package, you need fewer tabs when planting making the MYCOTabs™ more cost effective and most importantly more beneficial to the plants. Simple to apply accurately and to check that they have been used.

780MYCOT0500	MYCOTabs	10.5kg pack (500 x 21g tablets)	£50.22
		10 x 10.5kg	per 10.5kg £46.95

D MYCOspikes 6-10-10

Roots® MYCOspikes™ provide a total feeding solution for healthy trees and shrubs. Each spike incorporates vital macro and minor nutrients to solve the most common deficiency problems preventing green-up and growth. Special binders release the elements over time – up to 12 months depending on your soil type and climate. Only MYCOspikes™ combine the proven Roots biostimulant complex with 19 strains of mycorrhiza.

This unique combination of nutrients, stress reducing compounds and uptake enhancing mycorrhiza work together in the feeder root zone – the area where trees and shrubs get their nourishment. They can't wash away like surface applications. Use a steel bar to make holes and to insert into feeder root zones.

310MYCO0100	MYCOspikes	1 x 5 spikes	per spike £4.75
310MYCO0200		24 x 5 spikes	£99.50
310MYCO0300		1 x 100 spikes	£80.75

Prices are nett, (excluding VAT & Carriage).

A



B



C



D



Amenity Land Services Ltd

Long Lane,
Wellington,
Telford, Shropshire,
TF6 6HA

Paul Robinson (Soil Biotechnology enquiries)

Telephone: 01952 641 949
Fax: 01952 247 369
Email: sales@amenity.co.uk
Web: www.amenity.co.uk



TURF PRODUCTS

A Thatch Less

A liquid concentrate providing a dynamic blend of Novozymes' proprietary microbes and powerful enzymes to accelerate thatch decomposition.

Thatch Less is formulated with Novozymes' proprietary blend of bacterial cultures and reinforced with an exclusive enzyme substrate. Thatch Less can reduce thatch layers in turf by more than 50%; it is effective on cool and warm season grasses, breaking down the cellulose in thatch and converting it into available nutrients.

310THATC0100	Thatch Less	9.5L	per 9.5L £168.07
		10 x 9.5L	per 9.5L £154.81



B Endo Roots Granular

Fine grade endoROOTS® is dryROOTS® with 200,000 spores and propagules of endo mycorrhiza (VAM) and six strains of Novozymes' microbes. It is effective on turfgrass, flowers, and many trees and ornamentals. Mycorrhizae help plant uptake of nutrients and water, and provide resistance against stress including drought and disease. There are nine species of endo mycorrhiza in this product. Mycorrhiza are almost absent in managed turf grasses yet greatly increase health and help desirable species compete against Annual Meadow Grass (poa annua).

310END/0505	Endo Roots Granular	20kg	per 20kg £47.16
		50 x 20kg	per 20kg £41.92



C Premier Vivisol

ALS Premier Vivisol is living humus derived from organic sources that has been made into granular form for ease of application.

Premier Vivisol is a natural organic pellet like soil conditioner specially enriched with 50% organic matter, 80-85% dry matter and a pH of 6.5-7. A natural humus product based on pressed linseed and grape seed, it acts as a natural food source for the added beneficial fertile soil micro-organisms. Humus has a 3 to 4 times more holding capacity (per volume) of both nutrients and water; than other soil particles. It should therefore form an integral part of any renovation programme for any fine turf or sports turf areas. It should also be used on all new landscape plantings or reclamation works where the topsoil is often a very sterile medium.

310SOILL0540	Premier Vivisol	25kg	per 25kg £32.40
		40 x 25kg	per 25kg £27.00

No picture available for this product

D Noburn natural wetting agent and soil penetrant

Liquid concentrated formulation composed of premium wetting agents acts to increase water penetration.

Noburn is a non-phytotoxic surfactant preparation made with yucca plant extract which increases water retention and will not burn or discolour grass or plants. Reduces hydrophobic conditions and increases water percolation.

170NOBUR0100	Noburn	10L	per 10L £82.67
		10 x 10L	per 10L £78.07

E Roots Turf Food 15-3-8 Microbial Fertiliser

Roots Turf Food is a natural, organic based speciality fertiliser derived from plant and animal meals, and fortified with both slow release and quick release soluble nitrogen. It provides complete nutrition for turf grass plus organic material to increase microbial activity in soil or sand. Its microbial content inhibits disease, converts nutrients for available plant use and even fixes nitrogen.

Roots 15-3-8 Microbial Fertiliser contains the following: 13 Strains of beneficial Micro-organisms; Bio Stimulants; Amino Acids; Carbohydrates; Humic Acids; Kelp Seaweed Meal; Major and Minor Nutrients including trace elements.

310HHI/0520	Roots Turf Food	20kg bag	per 20kg £38.25
		40 x 20kg bags	per 20kg £33.75



F Premier Antagon 4-3-2

ALS Antagon is an organic 4-3-2 fertiliser enriched with antagonistic fungi containing 60% organic matter. (Free advice from ALS on request)

Its nutritional pellet is inoculated with antagonistic trichoderma fungi, increasing the biological resistance to fungal disease attack in the soil or compost.

310MICRO0600	Premier Antagon	25kg bag	per 25kg £37.50
		40 x 25kg bags	per 25kg £33.75

Prices are nett, (excluding VAT & Carriage).

GREEN PESTICIDES

A Savona

A soap concentrate giving useful control of mealybugs, whitefly, scale insects, aphids and red spider mites, for ornamental tree and shrubs. Pests must be sprayed directly to achieve any control. Spray all plants to run off. A truly green method of control that is safe, non-poisonous and environmentally friendly. Application Rate: 1-50 to 1-100 litres of water.

192SAVONA300	Savona	4L	per 4L £35.95
		10 x 4L	per 4L £33.58



WATER TREATMENTS

B Excalibar

Excalibar is an established, environment-friendly extract of barley straw preparation to fight and control algae.

- Not a herbicide. It comes as an easily-applied solution, and is harmless to fish and other animals.
- Produced under carefully controlled conditions, and is batch-tested to maintain consistent concentrations of anti-algae compounds.
- 100% active from the moment it is poured into the water, and blocks further growth of the algae present. Because it does not directly kill the algae, Excalibar should ideally be used as a preventive tool, and added in the spring, before the algae begin to grow strongly. It can still be used under algal bloom conditions, but may take some weeks to bring the bloom under control, as the algal cells expire. Suspended algae (green and blue-green species) succumb to Excalibar more quickly than filamentous types.

Application rates when used as a preventative – 5L per acre for weeks 1 & 2 and then week 3 onwards 1L per acre per week.

162EXCAL0100	Excalibar	25L	per 25L £133.00
		10 x 25L	per 25L £123.50



C Pro Crystal Lake Treatment

ProCrystal® controls swimming or floating unicellular and filamentous algae found in ponds, lakes and all stagnant expanses of water favouring their development. These algae develop and proliferate in nutrient rich waters and are the main cause of oxygen depletion of the water following their decay.

ProCrystal® is a plant-based inert powder inoculated by 6 strains of class 1 bacteria (over 6 x 10⁹ bacteria per single-dose sachet). It very quickly consumes and degrades the excess nitrogen (nitrates and ammoniacal nitrogen) and phosphates that algae feed on to develop.

163PROCRO500	Pro Crystal	4.09kg	per 4.09kg £147.26
		10 x 4.09kg	per 4.09kg £139.50



D Siltex

Siltex is a natural and inexpensive way to reduce organic silt in ponds, lakes and rivers.

Siltex is a highly porous form of calcium carbonate (chalk) consisting of microscopic particles of less than 5 microns, which means that it is environmentally friendly and harmless to plants and animals.

162SILTE0500	Siltex	40 x 25kg	per Tonne £230.00
162SILTE0500	Siltex	100 x 25kg	per Tonne £176.00

No picture available for this product

Prices are nett, (excluding VAT & Carriage).



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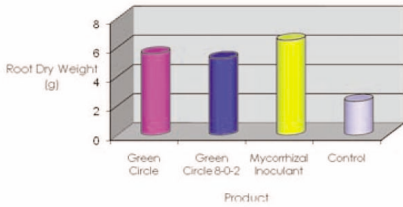
Tony Howarth (Turf, Pesticides & Water Treatment enquiries)

Telephone: 01952 641 949
Fax: 01952 247 369
Email: sales@amenity.co.uk
Web: www.amenity.co.uk

SOIL BIOTECHNOLOGY

Sports Turf Management

Comparison of the Effect of Symbio products on Root Dry Weight Compared to the Control



Symbio's team of sports turf professionals help the UK's top sporting venues to maintain championship conditions while reducing chemical and water inputs.

We harness the power of the soil food web to help you manage heavily used sports turf to provide excellent playing conditions, while reducing chemical use and costs.

We help you develop a holistic approach to stop firefighting problems with chemicals, and provide conditions for rye, fescue and bent to grow in disease and dry patch free conditions.

All Symbio products work towards providing healthy soil for healthy grass; in doing this we can help you solve the following problems:

Disease and Dry Patch management – Turf diseases attack weak grass, **Symbio PhytoGro** helps the plant develop its immune systems.

Symbio Fungi Booster adds beneficial fungi to the soil to promote fine grass and out compete diseases for food. Symbio programmes can be designed to help prevent fusarium, anthracnose, dollar spot, take all patch and fairy rings. Both remove the hydrophobins that cause dry patch.

Thatch management – **Symbio ThatchEater** breaks down thatch and converts it to plant food, humus and humic acid it also removes a food source for pathogenic fungi.

Fine Grass promotion – *Poa annua* is a weed and difficult to manage, **Symbio Mycorrhizal SeedCoat** gives your expensive seed a competitive advantage over *Poa annua* and reduces the amount of seed needed. **Symbio Mycorrhizal Inoculant** for new greens and pitches provides a wide range of soil organisms.

Fertilisers – **Symbio MycoGro Complete Organic** fertilisers 5.4.3 100% Organic and 10.2.10+4Mg, 5.2.10+4Mg, 5.0.29+4Mg with root enhancing mycorrhizae, thatch eating fungi and nutrient recycling bacteria are a complete feed and soil boost in one.

Symbio TraceOlite a zeolite with added trace elements increases CEC and water retention and makes your fertiliser last longer.

Symbio Compost Tea Brewers let you grow a complete organic pack on site for easy spraying to poor soils for grass and landscape management.



PRICE EXAMPLES:

- Phytogro from £114.95 to £209.00 per Ha
- FungiBooster from £98.00 to £198.00 per Ha
- MycoGro Organic from £15.56 to £24.44 per 20kg
- TraceOlite from £325.50 to £375.25 per Tonne.

Prices are nett, (excluding VAT & Carriage).



<p>Symbio Unit 8, Coopers Place Combe Lane, Wormley Surrey GU8 5SZ</p>	<p>Martin Ward Telephone: +44 (0)1428 685762 Fax: +44 (0)1428 685702 Email: info@symbio.co.uk Web: www.symbio.co.uk</p>
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Sustainable building cleaning

Sustainable building cleaning: the provision of natural biological products as cleaning agents to clean surfaces and drainage systems in parks buildings such as pavilions or public conveniences, in order to naturally degrade fats rather than using bleaches and other chemical agents.



How We Specified

- Products must be widely used and tested in the horticultural profession
- Products must be obtained from naturally occurring microbes, enzymes or plant extracts
- All products must be bio-degradable
- Must be able to provide references indicating that products have been used in a similar professional environment

How Green are sustainable building cleaning products?

Sustainable building cleaning products use naturally occurring microorganisms to clean drains, surfaces and other areas of buildings. There are not harmful to the environment, and unlike chemicals such as bleaches, do not harm useful microbacteria which are an essential agent in sewerage systems.

Description and Pricing

Descriptions are given to distinguish different types of product. Price examples are given, but full details are available direct from Symbio.



- Biological drain and urinal maintenance
- Simple, safe and economical to use
- Non-toxic broad-spectrum sanitisers
- Enzyme surface cleaners
- No special storage requirements
- Symbio SuperSan effective against MRSA, avian flu and Newcastle disease

A small product range will cover all your cleaning deodorising sanitising and drain maintenance needs.



SUSTAINABLE BUILDING CLEANING

Why use Biological products?

Replace traditional acids, bleaches, caustic and solvent based cleaning products with the power of natural microbes and enzymes to break down any organic soiling without compromising on performance.

The exclusion of harsh chemicals means that biological products are safe and easy to use and only require basic handling precautions; they also cause no damage to surfaces, floors and pipework in regular use.

Surface Cleaning

SuperClean – A highly concentrated foaming enzymatic gel removes all organic matter from hard and porous surfaces, from the most stubborn toilet, kitchen and oil cleaning jobs, to artificial sports pitches. You can use one product for nearly all your cleaning needs. 1 litre covers up to 10,000 m².

DeepClean – A concentrated non-foaming enzymatic powder deep cleans all porous surfaces. Exceptional performance on grease and oil marked floors.

DeepClean for Hydrocarbons – Oil removal made easy in fuel depots and workshops; it is also safe to use for oil spills on grass. 1kg covers up to 2,000m² when diluted.

DeterOil – A first response solution for environmental oil spills on hard and porous surfaces as well as sand and soil. Diluted 1 litre covers up to 1,000m².

Supersan – A non-toxic hypoallergenic broad-spectrum sanitiser. A highly effective citrus based surface sanitiser for use on all surfaces including food preparation. Effective against a wide range of common and pathogenic organisms.

Deodorisation

Symbio Fresh and **Symbio Odoreat** – Odour control liquids for indoor and outdoor use that neutralise odours at their source without masking. 1 litre makes 300 litres of odour control solution.

All Symbio surface and odour neutralisers can be mixed and applied manually or via all standard cleaning machines.

Drains, pipes, sewers, grease traps and septic tanks

Descal – A microbial powdered product that keeps urinal and shower pipes and drains free from uric scale, limescale and associated foul odours.

DrainClean – Safe to handle grease digesting microbes that prevent the accumulation of fats and grease in pipes, drains and sewers and their associated foul odours. Apply every 2-3 weeks via a toilet or inspection cover to eliminate the need for rodding, jetting and chemical drain unblockers.

Liquid Drain Clean – Solve drain blockages in busy kitchens to keep sink traps, pipes, drains and grease traps clear and maintenance free. Can be used with an auto dosing system.

Grease Buster – Weekly application keeps grease traps maintenance and odour free. These grease-digesting microbes can also be used on problem sinks, pipes and drains.

SeptiTank – Weekly application of these fat, waste and paper degrading microbes and nutrients via a toilet or drain boosts the performance of septic tanks, unblock soakaways, eliminate odour problems and reduce the requirement for pumping out.

PRICE EXAMPLES:

SuperClean from £4.34 to £10/L

Fresh from £2.62 to £6.53/L

Descal from £6.38 to £13.10/kg

Prices are nett, (excluding VAT & Carriage).



Descal for urinal pipes



Heavy oil cleaning – before DeepClean



Heavy oil cleaning – after DeepClean

live in a
cleaner world



Symbio

Unit 8, Coopers Place
Combe Lane, Wormley
Surrey GU8 5SZ

Martin Ward

Telephone: +44 (0)1428 685762
Fax: +44 (0)1428 685702
Email: info@symbio.co.uk
Web: www.symbio.co.uk

Horticultural products

Horticultural products: These are fertilisers which use organically sourced materials for their composition.



How We Specified

- All national and international regulations (e.g. EU Fertilisers Regulations) must be fully complied with
- Suppliers had to demonstrate that products were widely used in the horticultural profession
- Suppliers had to be able to provide references indicating that products had been used in a similar professional environment.

How Green are Organic Fertilisers?

Organic fertilisers use materials which will not harm the environment or cause erosion as the land dries out and loses its fertility over time. They are harmless to plant and animal life.

Description and Pricing

Costing is for single units (e.g. in kg) or for quantities of up to 100 units.

Organic fertilisers use natural materials such as seaweeds and manures to produce products rich in nitrates, potash and phosphates, essential trace elements and growth agents.



We all want to cut back on the amount of inorganic fertilisers, pesticides and water used to maintain plants, sports turf and trees. You can now achieve your aims and improve conditions for your park's users. Symbio has developed a range of products that puts the life back into sterile and chemically managed soils improving plant performance while cutting back on disease, fertiliser and irrigation requirements saving money on chemicals, management time and water.

Horticulture and Landscaping

Planting trees, shrubs, bedding plants and hanging baskets

Cut transplant losses and increase speed of growth with Symbio Mycorrhizal Whip Dip for bare rooted plants, Symbio Mycorrhizal Transplanter for containerised and rootballed trees and shrubs and Symbio Mycorrhizal SeedCoat for all seeds.

Plant nutrition

Symbio's MycoGro range of organic and part organic fertilisers in popular formulae 5.4.3, 10.2.10, 5.2.10, contain mycorrhizae and soil bacteria and fungi to give your plants the support of a healthy soil food web to access nutrients and water and fight off disease.

Symbio Vermicompost 3.2.5 is the ideal low cost slow release organic nutrient for all plants and heavily used grass areas acting as compost, feed and mulch in one.

Water Treatment

Algae and sludge in ponds

Symbio BlueWater is a simple to apply, low cost biological solution to prevent algal growth and degrade the organic silt that causes noxious odours in boating lakes, ornamental fish ponds, fountains and irrigation reservoirs.

PRICE EXAMPLES:

Symbio Whip Dip from 2p to 4.6p per Whip

SeedCoat from 1.1p to 2p per m²

MycoGro fertilisers from £19.00 to £29.24 per 25kg

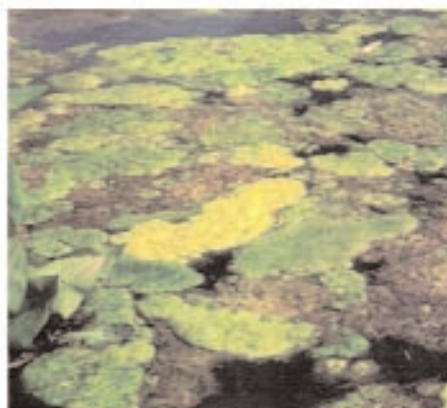
VermiCompost from £86.00 to £172.00 per tonne.

Prices are nett, (excluding VAT & Carriage).

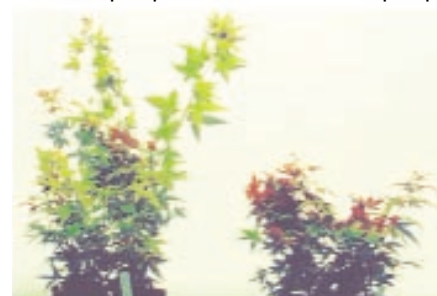


With Whip Dip

Without Whip Dip



Prevent blanket weed and algae



With Whip Dip

Without Whip Dip



Symbio Vermicompost 5.2.3 Organic Fertiliser



live in a cleaner world



Symbio

Unit 8, Coopers Place
Combe Lane, Wormley
Surrey GU8 5SZ

Martin Ward

Telephone: +44 (0)1428 685762
Fax: +44 (0)1428 685702
Email: info@symbio.co.uk
Web: www.symbio.co.uk

Horticultural Products

A EcoGrow Bio-compost

Highly water retentive, peat free organic compost. EcoGrow Bio-compost is a unique blend of coir pith, bio-stimulants and soil microbial enhancers. Coir pith is the coconut husk after the fibre has been removed from the coconut. Coir pith has exceptional water retention properties and its' high lignin content results in a very slow rate of decomposition thus ensuring a long life soil conditioner.

Bio-stimulants are materials that promote plant growth by stimulating hormonal activity. This activity is essential for root formation, cell division, and plant health and stress tolerance.

Microbial enhancers are naturally occurring microbes that augment existing microbes present in the soil and provide it with organic matter. Soil, then becomes more fertile and plants can absorb balanced nutrients which in turn, makes them more healthy.

Combined together, EcoGrow Bio-compost is a unique eco-friendly bio-compost which:

- **Increases crop yield**
- **Stimulates plant growth**
- **Retains water in dry conditions**
- **Suppresses heat stress and frost damage**
- **Enhances root formation**
- **Stimulates plant enzymes and hormones**
- **Enhances seed germination**
- **Improves plant resistance to disease.**

B EcoGrow Bio-fertiliser

EcoGrow Bio-fertiliser is a totally natural and organic plant growth stimulant and soil microbial enhancer. It is highly effective at all stages of plant life, particularly in enhancing nutrient uptake by plant roots promoting healthier and stronger plants. It enhances enzymatic and hormonal activity, which accelerates cell division and promotes increased growth.

In soil, it increases microbial activity and destroys harsh chemicals introduced into the environment.

EcoGrow Bio-fertiliser contains high concentrations of both humic and fulvic acids, along with marine plants, enzymes and micro nutrients. It is highly effective as a plant growth stimulant, soil enhancer, chelating/colloidal agent, and as a disease suppressant. When used as directed your plants will respond faster and better than you have ever expected.

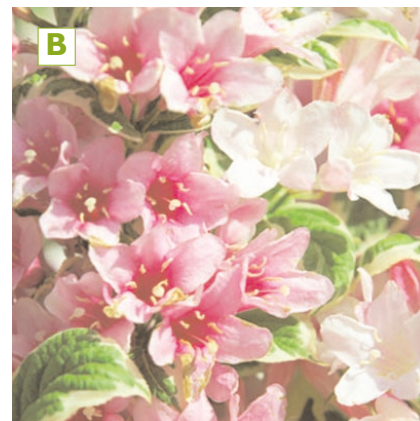
EcoGrow Bio-fertiliser is used to:

- **Grow healthy plants in a clean environment**
- **Suppress soil and root pathogens**
- **Neutralize pesticides in plants and soil**
- **Reduce toxic chemical damage in the soil**
- **Stimulate microbial growth**



EcoGrow Bio-compost	per 25L
250L	£2.93
1500L	£2.41

Prices are nett, supply only
(excluding VAT & Carriage).



EcoGrow Bio-fertiliser	per 25L
25L	£33.75
100L	£30.37

Prices are nett, supply only
(excluding VAT & Carriage).



An integrated approach to sustainable technology

Burdens Environmental

Earl Russell Way,
Lawrence Hill,
Bristol BS5 0WT

Holly Hurst

Telephone: 0845 601 1188
Fax: 0845 609 2525
Email: eco@burdens.co.uk
Web: www.burdensenvironmental.com

Why choose Farmura?

Farmura has pioneered the development of environmentally sound products for sustainable turf management for over 30 years. Our tried and tested products are used world wide – in the UK, Europe, the USA and the Middle East by discerning turf managers who appreciate the benefits of organic and balanced turf care.

Farmura has a long history of innovation. It was the first company to promote **liquid organics** on turf – the early success of Farmura on the Open Championship golf courses is well documented. Farmura introduced **Liquid Iron** into the European market with **Ferrosol**; introduced the first successful **Spray Pattern Indicator (Blazon)** and were one of the first companies to promote the benefits of **true liquid fertilisers**. We also pioneered the development of natural disease management of fusarium with **Inhibiter**. Our **Algisure Seanure Seaweed** and **Root Dip** are two of the best known brands in the industry and our **F25 Powered Sprayer** is the market leader in its class. The **Eurogreen system** of sports turf renovation is professionally recognised for its outstanding results which have helped our contract customers win a number of awards. This tradition of innovation continues with the development of our 'Mix & Spray' technique, which enables customers to develop customised Farmura solutions to suit specific turf management requirements.

Whether you're responsible for a championship golf course, a sports pitch, a bowling green or landscaping, Farmura offers you a range of tried and tested products and ancillary equipment to help you keep your turf in peak condition – naturally!

- **Organic and environmentally sound products**
- **Ethical and honest dealing**
- **Organic materials sourced directly from sustainable sources**
- **Long established customer base**
- **History of proven results**
- **Genuine commitment to the industry**

A Ferrosol – The first liquid iron in the European market and still sets the standard by which **liquid iron** is judged.

Ferrosol - 5L units per 10 **£23.96**
 Ferrosol - 210L units per 10 **£672.00**

Further discounts available per 100 units

B Porthcawl – The flagship liquid organic fertiliser, which is a proven blend of organic ingredients containing over 70 analysed nutrients, trace elements, carbohydrates amino acids and growth regulators.

Porthcawl - 25L units per 10 **£46.66**
 Porthcawl - 210L units per 10 **£341.28**

Also available in 1000L *Further discounts available per 100 units*

C Turf – The original liquid organic feed. Use from initial pre-seeding through to maintenance. Excellent choice for ecologically sensitive areas.

Turf - 25L units per 10 **£33.20**
 Turf - 210L units per 10 **£243.64**

Also available in 1000L *Further discounts available per 100 units*

D Algisure Seanure Soilbuilder – A concentrated humus to create soil structure and boost plant growth. It is an easily spreadable natural seaweed soil conditioner and improver.

Seanure - 25kg units per 10 **£23.96**

Further discounts available per 100 units

E Kelplant organic soil conditioner

Encourages and stimulates vigorous growth - from hanging baskets to golf courses and playing fields.

Kelplant - 25kg units per 10 **£38.00**

Further discounts available per 100 units

F Inhibiter is a remarkable 100% organic product that provides protection against disease, improves turf colour and stimulates natural defences against turf disease.

Inhibiter - 25kg units **NO £27.04**

Further discounts available per 100 units



G Combi is a high quality Foliar Turf Treatment containing a full range of trace elements for application to correct deficiencies. It can be used as a stand alone application or conveniently tank-mixed with Farmura super concentrates.

2447 Combi - 1L unit per 10 £22.00

Further discounts available per 100 units

All prices are nett and exclude Carriage & VAT



farmura
 environmental

Farmura Ltd
 Stone Hill,
 Egerton,
 Ashford,
 Kent TN27 9DU

Jonathan Harmer
 Tel: 01233 756241
 Fax: 01233 756419
 Email: info@farmura.com
 Web: www.farmura.com

Machinery

Machinery: A range of horticultural machinery which is used for the recycling of green waste (e.g. wood chippers, shredders).

How We Specified

- CE marking of machinery must be used
- Machinery must not endanger health and safety when in use in accordance with EU Machinery Directive Articles 2 and 3
- Machinery must be provided in accordance with EU Machinery Directive Article 5, i.e. be accompanied by the EC Declaration of Conformity
- Machinery must be widely used in the horticultural profession.

How Green are Chippers and Shredders?

Chippers and shredders reduce green waste to volumes which allow it to be recycled as mulch on shrub beds, as a soil conditioner, or as informal path material. By recycling green waste, considerable quantities of landfill can be avoided, thus reducing pollution from transportation and nuisance and pollution from landfill sites.

In addition to these benefits, such recycled material provides a potential fuel source for bio-burners.

Description and Pricing

Chippers use typically 2, 3 or 4 blades on a flywheel to chip green waste against a shear bar or anvil. Shredders typically use a series of metal strips arranged on a shaft rotating at high speed to hammer green waste against a screen through which the material is forced.

Units are costed individually.





Wood Chippers and Green Waste Shredders

As leading manufacturers of Wood Chippers, Green Waste Shredders and Stump Grinders, and winner of The Queen's Award for Enterprise in International Trade 2005, GreenMech Ltd offers customers the advantage of high performance, robust construction, easy operation, low maintenance and a competitive price structure with an after sales service second to none.

GreenMech is committed to delivering a range of Wood Chippers and Green Waste Shredders to meet all Green Waste recycling requirements.

Manufactured to meet and exceed all safety standards, GreenMech's ranges are powerful, reliable and capable of handling most tasks.

Wood Chippers up to 260mm (10 inch) Tractor Mounted and Diesel Powered (road towable or tracked), Disc Blade Chipping Technology, No Stress Power Control System, Turntable Option, Noise Level Reduction System.

Cutting Edge In Wood Chipper Technology

The revolutionary Disc Blade cutting technology is standard on all models. Designed, manufactured and patented by GreenMech, the Disc Blade System provides a more efficient alternative to conventional cutting. Benefits include:

- **Reduction in costly down time**
- **Less susceptible to damage**
- **Reduced noise levels.**

A The Arborist 15-23

A 150mm x 230mm capacity machine with a 26 hp water-cooled diesel engine, single feed roller (twin roller option), No-Stress power control. A convenient infeed height and top and side control/safety bar eliminates most nuisance tripping. Compact transport mode is given by the folding infeed chute which allows the chipper to fit inside your garage for safe storage. Road towable, and even the 34hp machine with twin feed rollers and braked chassis is under the 750kg towing limit.

Arborist 15-23 26hp each **£11,250.00**

Arborist 15-23 34hp each **£12,105.00**

B SAFE-Trak STC19-28MT50

All makes of Traked Chipper up until now have suffered from poor stability on sloping ground, lack of ground clearance and too wide for restricted access.

The SAFE-Trak system has solved all these problems. Its innovative track extension system (Patent Pending) independently extends each track by up to 600mm (24") and raises the machine to give massive ground clearance, up to 600mm. By extending only 1 track slopes up to 35-degrees can be traversed in complete safety. A twin Pump system totalling 90lt/min gives a tracking speed of up to 6km/h

STC19-28MT50 each **£23,085.00**

Prices are nett (excluding VAT), including Carriage throughout England. Discounts are available for orders of 5+ units.

We can offer you other models tailored to your specific needs and even have some used machines. Please visit our website – www.greenmech.co.uk for details.



Greenmech Ltd

The Mill Industrial Park,
Kings Coughton
Alcester,
Warwickshire. B49 5QG

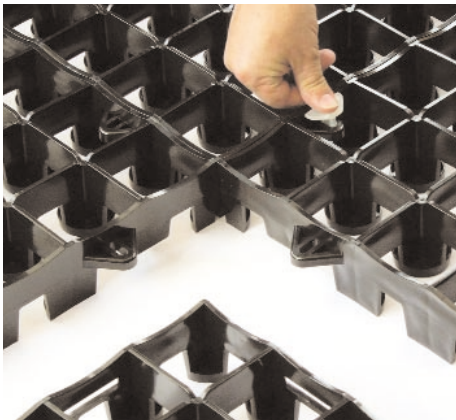
Hazel Honeybourne

Telephone: 01789 400 044
Fax: 01789 400 167
Email: sales@greenmech.co.uk
Web: www.greenmech.co.uk



Sustainable Urban Drainage Systems (SUDS)

SUDS: A number of sustainable products consisting of porous paving and drainage for the attenuation, infiltration and treatment of runoff



How We Specified

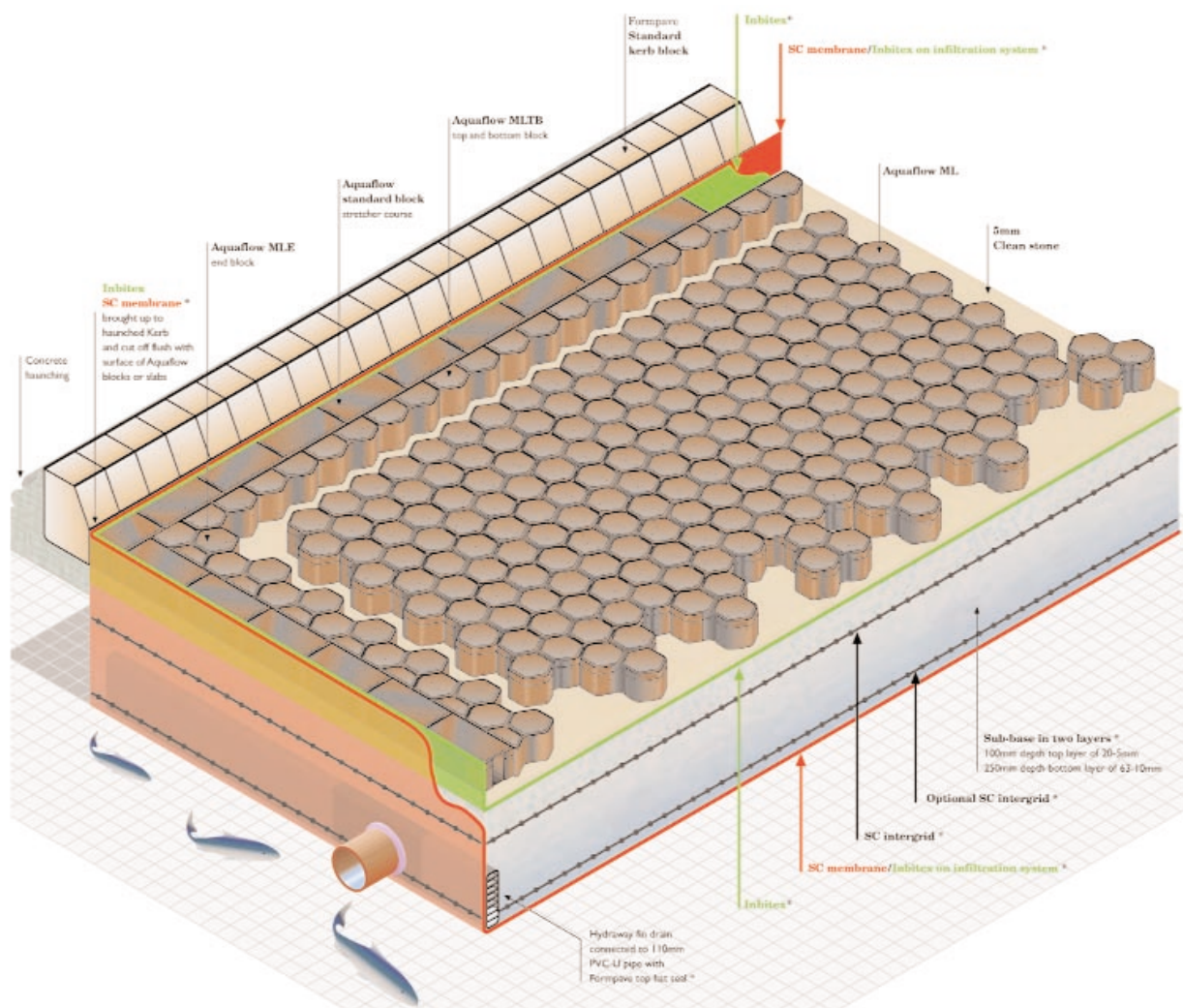
These products were included as an alternative offer of products which might add value. They were evaluated in terms of sustainability, quality, and ability to supply.

How Green are Sustainable Urban Drainage Systems?

Flood risk and other environmental damage have been seen throughout the UK in recent years. This can be minimised by reducing the rate of runoff through the use of sustainable drainage systems. Natural treatment occurs as the water percolates through the ground, resulting in the release of good quality surface water to watercourses or groundwater.

Description and Pricing

The SUDS products in the catalogue consist of porous matrix paving and membranes as well as cellular storm water management systems.



Sustainable Urban Drainage Systems (SUDS)



A

Advantages

- Fully accessible for inspection and maintenance through patented 222 x 570 mm tunnel within the blocks.
- High void ratio (96%).
- Many installations throughout UK and Europe.
- 2 block sizes available: 0.8m x 0.8m x 0.66m or 0.35m deep.
- Lightweight with high strength.
- Can be used under trafficked areas including roads and HGV areas.
- Readily available.
- Easy to install.

A Stormbloc®

Stormbloc® is a new addition to the stormwater management package within the UK and Ireland, but has been in use for some time now within Europe.

Stormbloc® is a cellular block type structure used predominantly for providing below ground surface water infiltration and soakaway systems. The unique advantage of Stormbloc® over other 'crate' type systems on the market is the patented inspection/maintenance tunnel through each block.

Applications:

- **Stormwater management/source control:**
Housing developments, New and existing developments, Highway schemes, Car parks
- **SUDS projects (new and retro-fit).**
- **Soakaways/infiltration trenches.**
- **Aquifer re-charge.**
- **Storage for rainwater re-use and harvesting.**

Stormbloc 0.8 x 0.8 x 0.66m block	per block	per block
0 - 250m ³	£52.00	250m ³ + £43.33

Prices are nett, supply only (excluding VAT & Carriage).



B

B Stormcell®

Stormcell® is a high void ratio plastic matrix produced in blocks of 2.4m x 1.2m in plan and between 120 and 520mm in depth. The matrix is made up of vertically aligned polypropylene hexagonal tubes which gives it exceptional ability to withstand vertical loads with very high crushing strength (40 tonnes/m²) and high creep resistance. Stormcell® blocks have a void ratio of 95% which gives it up to 3 or 4 times the storage capacity of granular material.

Applications:

- **Large area storage** - used with WTB Geotechnics permeable hard or soft landscape paving systems stormwater can percolate directly into the storage facility, thus eliminating the need for stormwater drainage. Stormcell® can also be used in place of tanks, culverts or oversize pipes for storage.
- **Large capacity storage** - extremely large storage volumes can be rapidly provided using Stormcell®. The depth and plan can be varied to suit site conditions.
- **Storage tanks** - on new developments the use of small storage tanks for each property can provide significant benefits. Rainwater can be reused for lawn watering or car washing.

Stormcell 2.4 x 1.2 x 0.52m block	per block	per block
0 - 250m ³	£182.00	250m ³ + £151.66

Prices are nett, supply only (excluding VAT & Carriage).

C Formpave Permeable Paving

Formpave have designed a range of Aquaflo paving blocks which when laid over a large area directly allows rainwater to permeate into a tanked attenuation or soakaway system before being released in a controlled manner into sewers or water courses. Discharge rates of 2.5 litres/hectare per second are easily achieved. Alternatively if the underlying geology is suitable, the water can be infiltrated directly into the sub-grade.

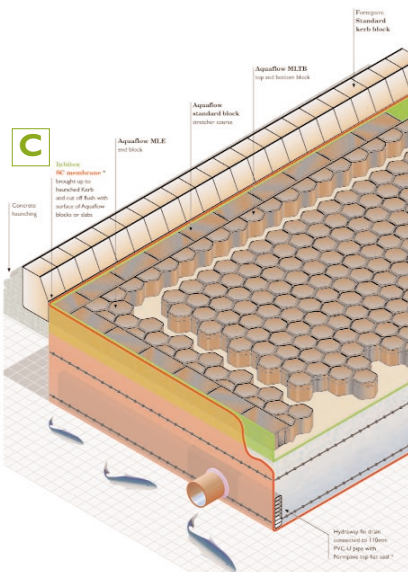
All of the Aquaflo blocks and slabs provide drainage through vertical channels and will allow water through the surface at a rate of approximately 9000mm per hour (9000 litres per m² per hour).

Aquaflo - for use on car parks and moderately trafficked areas 100 x 200 x 80mm

Aquasett - for use on footpaths and domestic drives 150 x 250 x 80mm

Aquaslab - for use on pedestrian areas 300 x 450 x 60mm

The water leaving the Formpave system can be cleaned by filtration and microbial action and can be used for secondary non-potable uses such as flushing toilets and watering soft landscapings. A further advantage of the system is that roof water can be drained directly into the sub-base via a roddable sump, or if siphonically drained, through a dispersion chamber:



C

Aquaflo 80mm	250m ² £20.27/m²	2500m ² £18.75/m²
Aquasett 80mm	250m ² £23.90/m²	2500m ² £21.50/m²
Aquaslab 60mm	250m ² £20.52/m²	2500m ² £19.00/m²

Prices are nett, supply only (excluding VAT & Carriage).

A SCS Agrablock

SCS Agrablock is a key product within a sustainable urban drainage system (SUDS), whereby the porous paving effects the efficient attenuation, infiltration and treatment of stormwater runoff at or near its source. It is also an ideal product for grass and gravel reinforcement. Made in the EU from recycled high density polyethylene, SCS Agrablock is a modular unit which works in conjunction with its neighbouring units to create an exceptionally durable, permanently porous, high load bearing structure. SCS Integra 500 is a similar modular unit to SCS Agrablock.

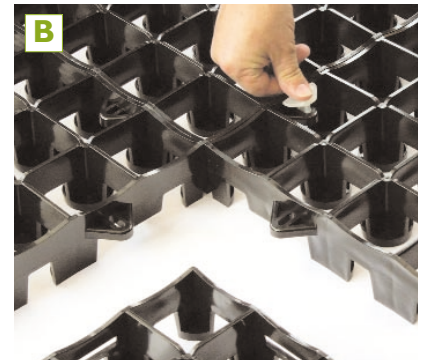
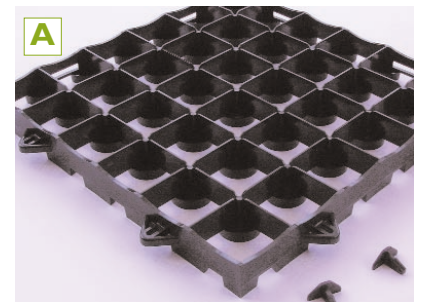
Infilled with either grass or natural aggregate in completed form, they remain in harmony with current environmental considerations whilst complying with increased governing legislation.

Applications:

- Emergency access roads
- Grass verges
- Vehicular hard-standings
- Sport & leisure facilities
- Sheltered accommodation
- Car parks
- Cycle ways
- Helicopter landing pads
- Domestic driveways
- Pedestrian areas
- Footpaths
- Holiday complexes
- Caravan sites

SCS Agrablock	50m ² £12.89/m ²
	500m ² £10.56/m ²
	2500m ² £8.89/m ²
SCS Integra 500	50m ² £14.75/m ²
	500m ² £12.64/m ²
	2500m ² £8.89/m ²

Prices are nett, supply only (excluding VAT & Carriage).



C Inbitex Thermally Bonded Non-woven Geotextile

The Inbitex geotextile is unique. The fabric is manufactured from polypropylene and polyethylene. During the manufacturing process, small dishes are created on the surface of the hairs from which the geotextile is manufactured. This is very important in the early establishment of a microbial biomass which is responsible for eating and degrading oils in the water. It is also important during dry periods when the microbial population can retreat into the dishes where moisture is to be found. Thus when it rains again the microbial biomass is quickly re-established.

What about the use of de-icing salts: won't the salt kill the microbes? Well yes and no - a large proportion of the microbes will be killed, but those which survive develop an immunity to salt and a salt-resistant community develops.

D SC Membrane

Durability: SC Membrane will remain flexible and will not degrade or oxidise under temperature conditions likely to occur in practice. Their effective operational temperature range is -25°C to 60°C.

Chemical Resistance: SC Membrane is resistant to attack by inorganic acids, alkalis, salt solutions which cause corrosion to metals, and dilute solutions of detergents or bleaches.

Resistance to U.V. Light: Exposure to ultraviolet light, including sunlight, will embrittle SC Membrane. The material is not therefore recommended for uses where it will be exposed to long periods of outdoor weathering. However, weathering will not occur when the membrane is installed in accordance with the recommendations.

Resistance to Puncturing: SC Membrane conforming to this standard has a high resistance to puncturing, when used in accordance with the recommendations. However, care should be taken to avoid damage during handling, storage, installation, and when covering with screeds or concrete.

E SC Jointing Tape

Performance: Made of inert materials, does not set or cure after placement in the joint. Movement accommodation; +/-15%. Tensile strength: 98 Kpa. Shear strength: 46 Kpa. Approved for use with potable water WRC Approval No. 9705502. Outdoor service temperature: -40 °C to +90 °C.

Application: Surface preparation: surfaces should be clean, dry and free from frost, grease and loose material. Application temperature range: +5 °C to +30 °C.

Application details: Apply directly from the reel onto one surface, pressing to give adequate initial adhesion. Remove backing paper and apply other surface onto strip pushing firmly to ensure good contact with full area of strip along the length of the joint.

F Floline Polybed

The Floline Polybed System encompasses our understanding of SUDS by offering a more cost-effective and sustainable solution to traditional drainage by utilising recycled polystyrene geosynthetic aggregate in place of natural quarried aggregates. The resultant benefits are an extremely lightweight system that can be rapidly installed without the need for specialist skills.

The Floline Polybed System stands apart from the usual 'deep geocellular box' SUDS system solutions and the heavy traditional chamber systems in many ways. Flexibility, for a start - it can bend around most fixed objects unlike boxes and chambers. Plus the light weight eliminates the usual physical and mental stresses associated with many drainage installations. Requiring only the manpower of one or perhaps two personnel for a typical installation, it doesn't require specialist skills.

The versatility of the Floline Polybed System makes it suitable for use in many applications:

- Domestic & stormwater soakaways
- Bio-treatment plants & septic tanks
- Sports pitch & golf course drainage
- Retaining wall & foundation drainage
- Land drains

Floline Polybed	per linear metre
	50m £15.00
	500m £13.50

Prices are nett, supply only (excluding VAT & Carriage).



Inbitex 4.5m x 100m roll	per roll
1 roll £253.74	10 rolls £237.48

SC Membrane 4m x 12.5m roll	per roll
1 roll £48.78	10 rolls £45.72

SC Jointing Tape 15m roll	per roll
1 roll £16.90	10 rolls £15.68

Prices are nett, supply only (excluding VAT & Carriage).



An integrated approach to sustainable technology