



**MASTERLINE®**

— The —  
**2015**  
Professional Range  
— of —

Amenity Grass Seed Mixtures  
Wild Flowers and Fertilisers

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# The professional choice

## INTRODUCTION

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**MASTERLINE**  
by DLF-TRIFOLIUM



## DLF TRIFOLIUM - SEEDS & SCIENCE

DLF-TRIFOLIUM focuses closely on the demands of customers as well as on the market trends of clover and grass seed. Offering one of the world's largest research and breeding programmes for both turf and forage, DLF-TRIFOLIUM is working continually to improve the quality and reliability of all varieties. To meet market expectations, these varieties are tested through a worldwide trialling network for adaptation to different climatic and environmental conditions.

DLF-TRIFOLIUM is the world's largest producer and distributor of grass seed. With subsidiaries in Denmark, Sweden, Holland, Belgium, UK, United States, France, Germany, Czech Republic, Russia, China and New Zealand, an extended distributor and customer network serves the markets worldwide.

## MASTERLINE - The professional choice

Our successful reputation has been built on a determination to deliver the best products and service to our customers at all times.

Throughout the organisation, measures are taken to improve efficiency of seed production so that the right product can be delivered on time and at the right price.

## CONTINUED INVESTMENT

**DLF Trifolium is committed to a programme of significant ongoing investment in production, processing and information technology.**

- A total of 100,000 square feet purpose built warehousing for bulk storage at our Worcestershire head office with new automated machinery

## ENVIRONMENTAL POLICY

**Seed is one of the most environmentally friendly crops to grow with low levels of pesticide inputs to the crop.**

- Seed is produced under direct control of the DLF Trifolium field production staff
- Grass varieties most suitable for organic production are being identified
- Various procedures are being evaluated relating to production: drying, storage, energy use, waste disposal and packaging
- Company policy is to:
  - Reduce quantities of packaging used
  - Increase the use of recycled material
  - Increase the use of vegetable based printing inks

## QUALITY

**Purpose built storage and processing facilities all staffed by trained personnel. This ensures the efficient production and despatch of all products.**

- Market leading cultivars from Europe's top breeders
- DLF Trifolium is committed to the UK production of amenity grass seed and native wild flowers grown and processed under the strict supervision of DLF Trifolium personnel
- All amenity seed lots checked on intake and tested at regular intervals during storage to ensure the highest levels of purity and germination. P&G certificates available on request

## SERVICE PLEDGE

- Sound advice on the selection and management of all products
- Same day despatch for orders placed before 12 noon
- National next day carriage service (proof of delivery available on request)
- Seed packed in high quality 20kg paper coated polypropylene laminate bags to ensure they arrive in perfect condition

**This pledge guarantees you high quality service and peace of mind.**



**4turf™ varieties are tetraploid varieties of turf Perennial Ryegrass – only marketed by DLF-TRIFOLIUM. Tetraploids are well known to give extra power and for turf this means:**

- Deeper rooting and stronger plants
- Extra stress tolerance
- Better establishment due to larger seeds – also at lower temperatures
- Improved resistance to Fusarium and Red Thread diseases



*4turf™ provides Ground Managers with a unique solution for improved grass cover during difficult seasons. The picture shows the unique tolerance to winter fusarium after a hard winter in Denmark 2010/11.*



Biostimulants assist the seedlings ability to take advantage of the soils own inherent reserves of nutrient by stimulating the soils microflora, resulting in improved root growth and establishment.

GroMax is a dry formulation of natural humates and humic acids, seaweed extract, a proprietary blend of natural sugars (sucrose), vitamins (B complex & K), soluble potash and buffering agents. The product is compatible with most micronutrients, fertilisers and pesticides.

## INGREDIENT SUMMARY

### HUMIC ACIDS

- Rich in auxin type substances which enhance antioxidant synthesis – important in increasing plant metabolism under stress conditions
- Serve as an important high carbon food source for soil micro-organisms
- Improve the permeability of cell-wall membranes in roots, allowing more rapid absorption of essential nutrients

### SEAWEED EXTRACT

- Contains high levels of cytokinins which promote cell division and lateral root growth and delay the ageing process of plant tissue
- Stimulates root growth after damage by disease or root feeding insects, or under conditions of temperature, water or salt stress

### SUCROSE

- Serves as a high energy food source for plant and soil micro-organisms

### B COMPLEX & K VITAMINS

- Act as important catalysts to enhance and drive plant metabolism. Vitamin B1 is widely used as a rooting aid

### AMINO ACIDS

- Form the building blocks of proteins - essential for plant growth and metabolism

### POTASSIUM

- Plays a vital role in disease resistance and overall hardiness of grass plants



## TECHNICAL SUPPORT

DLF Trifolium customers are guaranteed the support of our experienced technical representatives.

- Sound advice on variety and mixture selection
- Project management and maintenance
- Special mix advice
- Field support and site visits
- Access to consultancy service for in depth advice and problem solving

## RESEARCH AND DEVELOPMENT

Significant investment in equipment and facilities has been made to support this vital area of the company. Trials and demonstration areas of all crops are grown and evaluated.

Close links with leading independent organisations and breeders such as STRI, TGA, BIGGA, IOG and BALI ensure that DLF Trifolium remains at the forefront of technical development in amenity grass.

## SPECIAL MIXTURES

Whilst our standard mixtures will cater for most situations we are always pleased to advise upon and produce mixtures to your own specification.

# Mixture Selector

	PM 5	PM 10	PM 13	PM 15	PM 20	PM 25	PM 25R	PM 26	PM 27	PM 28	PM 29	PM 35	PM 36	PM 40	PM 45	PM 50	PM 51	PM 52	PM 60	PM 65	PM 70	PM 75	PM 79	PM 80	PM 81	PM 82	PM 85	PM 90	PM 95	PM 105	PM 110	PM 120	PM 125	HORSEMAX					
AIRPORT																																							
ATHLETICS																																							
BOWLING GREEN																																							
CARAVAN PARKS																																							
COASTAL SITES																																							
CONTAMINATED SITES																																							
CRICKET OUTFIELD																																							
CRICKET SQUARE																																							
DRIVING RANGE																																							
DRY SOILS																																							
ECONOMY																																							
EMBANKMENTS																																							
FERTILITY BUILDING																																							
FINE LAWN																																							
FOOTBALL																																							
GALLOPS/POLO																																							
GOLF FAIRWAY																																							
GOLF GREEN																																							
GOLF ROUGH																																							
GOLF TEE																																							
HARD WEARING LAWN																																							
LANDFILL																																							
LANDSCAPE GENERAL																																							
LOW MAINTENANCE																																							
PADDOCKS																																							
ROAD VERGE																																							
RUGBY																																							
SHADE																																							
TENNIS COURT																																							
WETLAND																																							
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# PM5



**ECONOMY GREEN**

## GOLF AND BOWLING GREENS

40% WAGNER	chewings fescue
40% HELENA	slender creeping red fescue
20% HIGHLAND	browntop bent

Sowing rate: 35g/m<sup>2</sup>  
 Overseeding: 25g/m<sup>2</sup>  
 Mowing height: down to 5mm

This traditional 80:20 mixture offers good results at a reasonable price.

# PM10



**TRADITIONAL GREEN**

## GOLF AND BOWLING GREENS

40% CALLIOPE	chewings fescue
40% VALDORA	slender creeping red fescue
7% MANOR	browntop bent
13% JORVIK	browntop bent

Sowing rate: 35g/m<sup>2</sup>  
 Overseeding: 25g/m<sup>2</sup>  
 Mowing height: down to 5mm

An ideal mixture for greens renovation providing rapid germination, a fine putting surface and excellent year round colour. The addition of the top rated new tenuis bentgrass Manor further improves colour and disease resistance.

# PM13



**FESCUE GREEN**

## HIGH QUALITY GREENS, TEES AND FAIRWAYS – FESCUE OVERSEEDING

10% MUSICA	chewings fescue
20% BLENHEIM	chewings fescue
20% CALLIOPE	chewings fescue
10% CEZANNE	slender creeping red fescue
20% VALDORA	slender creeping red fescue
20% HELENA	slender creeping red fescue

Sowing rate: 35-50g/m<sup>2</sup>  
 Overseeding: 15-25g/m<sup>2</sup>  
 Mowing height: down to 6mm

A high quality fine fescue mixture designed for the renovation of greens. The mix will establish quickly and has excellent year round colour and disease resistance. Especially useful for over sowing early and late in the season when following a sustainable golf management programme.

# PM15



**GREEN ALLBENT**

## GREENS RENOVATION MIXTURE (ALL BENT)

35% MANOR	browntop bent
65% JORVIK	browntop bent

Sowing rate: 10g/m<sup>2</sup>  
 Overseeding: 5g/m<sup>2</sup>  
 Mowing height: down to 4mm

An all browntop mixture, ideal for autumn over sowing of existing greens. Top rated cultivars for greens use, this combination provides excellent year round colour and disease resistance.

# PM20



**FINETURF**

## TEES, FAIRWAYS AND HIGH QUALITY FINE LAWNS (WITHOUT RYEGRASS)

30% WAGNER	chewings fescue
20% HELENA	slender creeping red fescue
45% ROSSINANTE	strong creeping red fescue
5% HIGHLAND	browntop bent

Sowing rate:	35-50g/m <sup>2</sup>
Overseeding:	15-25g/m <sup>2</sup>
Mowing height:	down to 10mm

A mixture of only the best species ensures the production of a truly first class fine turf sward. An important pre-requisite is a clean seed bed free from coarse species so that the full benefits of the short fine varieties can be seen. Now further improved with the addition of the top rated new fine turf red fescue Rossinante.

# PM25



**GRO-SLOW**

## LOW MAINTENANCE/ POOR SOILS/ EMBANKMENTS/ GOLF ROUGH

10% HELENA	slender creeping red fescue
45% MAXIMA	strong creeping red fescue
30% TRIANA	hard fescue
10%	crested dogstail
5% HIGHLAND	browntop bent

Sowing rate:	25-50g/m <sup>2</sup>
	4g/m <sup>2</sup> when sowing with wild flora
Overseeding:	15-25g/m <sup>2</sup>
Mowing height:	20mm or twice/ year to approx 100mm
Unmown height:	approx 150-200mm [excluding flower heads] depending on fertility

This is a reduced maintenance mix that is naturally low growing and attractive, using fine grasses that are very tolerant of dry, infertile conditions reducing the need for additional applications of water and fertiliser. The addition of Crested Dogstail to the mix ensures a quick germination and green up of the sward.

# PM25R



**GRO-SLOW PLUS**

## LOW MAINTENANCE/ POOR SOILS/ EMBANKMENTS

15% DOUBLE	tetraploid perennial rye
10% HELENA	slender creeping red fescue
40% MAXIMA	strong creeping red fescue
20% TRIANA	hard fescue
10%	crested dogstail
5% HIGHLAND	browntop bent

Sowing rate:	25-50g/m <sup>2</sup>
Overseeding:	15-25g/m <sup>2</sup>
Mowing height:	20mm or twice/ year to approx 100mm
Unmown height:	approx 150-200mm [excluding flower heads] depending on fertility

The addition of new Double 4Turf™ tetraploid rye grass to our standard low maintenance mixture is suitable when rapid establishment is also required. 4Turf™ has a more open habit, perfect to allow the finer grasses to establish and offers improved drought tolerance and a stronger root system.

# PM26



**ECOSWARD**

## LOW MAINTENANCE LANDSCAPE MIX WITH CLOVER

25% WAGNER	chewings fescue
20% HELENA	slender creeping red fescue
40% HERALD	strong creeping red fescue
10% EVORA	smooth stalked meadow grass
5%	microclover

Sowing rate:	25g/m <sup>2</sup>
Overseeding:	25g/m <sup>2</sup>
Mowing height:	13-25mm

Ecosward mixtures have been developed to reduce input costs and be kind to the environment by eliminating the need for excessive fertiliser, water and herbicide. Adding new Microclover to the mixture naturally fixes nitrogen for the grasses while significantly increasing drought tolerance and disease resistance. Produces a visually attractive, dark green turf.

# PM27



## ECOSWARD PLUS

### LOW MAINTENANCE LANDSCAPE MIX WITH CLOVER INCLUDING RYEGRASS

50% DOUBLE	tetraploid perennial rye
35% HERALD	strong creeping red fescue
10% WAGNER	chewings fescue
5%	microclover

Sowing rate:	25g/m <sup>2</sup>
Overseeding:	25g/m <sup>2</sup>
Mowing height:	13-25mm

Ecosward mixtures have been developed to reduce input costs and be kind to the environment by eliminating the need for excessive fertiliser, water and herbicide. Adding new Microclover to the mixture naturally fixes nitrogen for the grasses while significantly increasing drought tolerance and disease resistance. Produces a visually attractive, dark green, hard wearing turf. Especially suitable for reinforced paving systems. High carbon capture mixture.

# PM28

## WETLAND

### DAMP AND WATERLOGGED SOILS

15% SABRENE 1	rough stalked meadow grass
10%	small leaved timothy
15% MAXIMA	strong creeping red fescue
10% ESQUIRE	perennial rye
10%	crested dogstail
40%	tall fescue

Sowing rate:	25-35g/m <sup>2</sup>
Overseeding:	25g/m <sup>2</sup>
Mowing height:	as required

Capable of withstanding prolonged wet conditions on heavy or light soils. When conditions allow the mixture can also be mown down to produce an attractive sward.

# PM29



## ALL SEASON

### DROUGHT TOLERANCE

50% CANNAVARO	tall fescue
50% DEBUSSY	tall fescue

Sowing rate:	25-35g/m <sup>2</sup>
Overseeding:	25g/m <sup>2</sup>
Mowing height:	down to 10mm

The new All Season mixture takes advantage of the significant advances DLF have made in the breeding of turf type tall fescues with regard to fineness of leaf and shoot density, providing an attractive, hard wearing, low maintenance alternative to ryegrass mixtures. Tall fescue has roots which will penetrate the root zone to depths of over 1m, the mix will cope with extremes of heat, drought and occasional waterlogging.

# PM35



## UNIVERSAL

### CRICKET SQUARES, TEES AND TENNIS COURTS

35% CLEOPATRA	perennial rye
35% CONRAD	perennial rye
30% HELENA	slender creeping red fescue

Sowing rate:	35-50g/m <sup>2</sup>
Overseeding:	25-50g/m <sup>2</sup>
Mowing height:	down to 5mm

This mixture incorporating high quality turf type perennial ryegrass cultivars gives fast establishment, strong soil binding characteristics, fine dense appearance and high close mown wear tolerance. A versatile mix suitable for any close mown situation under wear.

# PM36



**WICKET**

**CRICKET WICKET,  
TENNIS AND TEES  
RENOVATION**

20% DICKENS	perennial rye
20% CLEOPATRA	perennial rye
60% CONRAD	perennial rye

Sowing rate: 35-75g/m<sup>2</sup>  
 Overseeding: 25-75g/m<sup>2</sup>  
 Mowing height: down to 5mm

The combination of these highly rated cultivars, now including Dickens, gives excellent performance with regard to speed of establishment, density and resistance to wear, under close mown conditions.

# PM40



**TEE AND FAIRWAY**

**TEES, FAIRWAYS AND  
CRICKET OUTFIELDS  
(WITHOUT RYEGRASS)**

40% ROSSINANTE	strong creeping red fescue
20% HELENA	slender creeping red fescue
25% WAGNER	chewings fescue
10% MIRACLE	smooth stalked meadow grass
5% HIGHLAND	browntop bent

Sowing rate: 35-50g/m<sup>2</sup>  
 Overseeding: 15-25g/m<sup>2</sup>  
 Mowing height: down to 12mm

The mixture is based on traditional blend of fine grasses. The inclusion of Miracle smooth stalked meadow grass greatly improves tolerance to wear and drought, especially important where perennial ryegrasses are undesirable.

# PM45

**TEE AND FAIRWAY PLUS**

**TEES, FAIRWAYS,  
CRICKET OUTFIELDS  
AND DRIVING RANGES  
(WITH RYEGRASS)**

35% CONRAD	perennial rye
35% ROSSINANTE	strong creeping red fescue
25% WAGNER	chewings fescue
5% HIGHLAND	browntop bent

Sowing rate: 35-50g/m<sup>2</sup>  
 Overseeding: 15-25g/m<sup>2</sup>  
 Mowing height: down to 12mm

An excellent mixture for the rapid renovation of tees and fairways. The addition of Conrad perennial ryegrass, combined with fine fescue and bentgrass, ensures a dense, hard wearing surface which repairs easily from divoting.

# PM50



**QUALITY LAWN**

**HIGH QUALITY HARD  
WEARING LAWN**

30% CONRAD	perennial rye
20% DICKENS	perennial rye
30% ROSSINANTE	strong creeping red fescue
10% BLENHEIM	chewings fescue
10% VALDORA	slender creeping red fescue

Sowing rate: 35-50g/m<sup>2</sup>  
 Overseeding: 15-25g/m<sup>2</sup>  
 Mowing height: down to 10mm

An excellent mixture, fine in appearance and hard wearing with excellent colour. The improved new cultivars ensure, a shade tolerant, low maintenance turf, with good disease resistance, keeping future maintenance costs to the minimum. A very successful mixture for both private and local authority use, on housing and industrial developments where a high quality and durable turf is called for.

# PM51



GREENSCAPE

## HARD WEARING LAWNS (WITH RYEGRASS)

25% DOUBLE tetraploid perennial rye  
25% ESQUIRE perennial rye  
50% MAXIMA strong creeping red fescue

Sowing rate: 35-50g/m<sup>2</sup>  
Overseeding: 25-50g/m<sup>2</sup>  
Mowing height: down to 13mm

A hard wearing mixture that will establish rapidly. Ideal for general purpose landscaping and lawns. Our unique Double 4Turf™ Tetraploid ryegrass delivers fast establishment, improved colour, increased drought tolerance and incredible disease resistance. Improved performance and reduced management costs. Contains only STRI UK listed cultivars.

# PM52



GREENFINE

## FINE LAWNS (WITHOUT RYEGRASS)

30% WAGNER chewings fescue  
70% MAXIMA strong creeping red fescue

Sowing rate: 35-50g/m<sup>2</sup>  
Overseeding: 25-50g/m<sup>2</sup>  
Mowing height: down to 13mm

An economical, fine textured mixture, reduces maintenance, suitable for landscaping and lawns. Contains only STRI UK listed cultivars.



# PM60



## GREENSHADE

### SHADED CONDITIONS (WITHOUT RYEGRASS)

15% MANETTO	hard fescue
20% SABRENE 1	rough stalk meadow grass
30% WAGNER	chewings fescue
35% HELENA	slender creeping red fescue

Sowing rate:	35-50g/m <sup>2</sup>
Overseeding:	25-50g/m <sup>2</sup>
Mowing height:	down to 25mm

A top quality mixture designed to produce an excellent wear tolerant turf under shaded conditions. Sabrena 1 rough stalked meadow grass germinates rapidly, providing an exceptionally fine, dense, green growth year round. To ensure successful results, do not mow too closely and feed regularly.

# PM65



## GALLOP

### RACE COURSES AND POLO GROUNDS

30% DOUBLE	tetraploid perennial rye
20% BERLIOZ	perennial rye
20% BIZET	perennial rye
15% SOMBRERO	smooth stalked meadow grass
15% MIRACLE	smooth stalked meadow grass

Sowing rate:	35-50g/m <sup>2</sup>
Overseeding:	25-50g/m <sup>2</sup>
Mowing height:	75-100mm

This mixture is designed for new courses/grounds and end of season renovation. The deeper root system, improved colour and incredible disease resistance of new Double 4Turf™ tetraploid ryegrass combined with the improved wear tolerance of the diploid ryegrasses deliver a high performance turf. The addition of No 1 rated Sombrero smooth stalked meadow grass improves the root strength and visual characteristics of the turf whilst also improving the long term ability of the turf to recover after wear.

# PM70



## RECREATION

### SPORTS FIELDS, TEES AND FAIRWAYS AND HARD WEARING LANDSCAPE TURF

25% DOUBLE	tetraploid perennial rye
20% BIZET	perennial rye
25% PLATINUM	perennial rye
30% HERALD	strong creeping red fescue

Sowing rate:	35-50g/m <sup>2</sup>
Overseeding:	25-50g/m <sup>2</sup>
Mowing height:	down to 12mm

A versatile mixture that will produce a very hard wearing sward with a high shoot density suitable for winter and summer games. The introduction of unique new Double 4Turf™ tetraploid ryegrass delivers the fastest possible establishment, especially important for the rapid renovation of worn turf, plus improved disease resistance and improved drought tolerance thanks to the deeper root system. The perfect mixture to bring your venue back to life following that summer tournament or festival.

# PM75

## STADIA

### SPORTS ARENAS AND HEAVY DUTY WEAR

20% BERLIOZ	perennial rye
30% BIZET	perennial rye
30% PONDEROSA	perennial rye
20% SOMBRERO	smooth stalked meadow grass

Sowing rate:	35-50g/m <sup>2</sup>
Overseeding:	25-50g/m <sup>2</sup>
Mowing height:	down to 25mm

The construction of a new playing surface provides an ideal opportunity to include new high performance cultivars. Pro 75 has been designed to produce a sward capable of withstanding the most heavy duty wear. Top rated cultivars including Berlioz perennial ryegrass and No 1 rated smooth stalked meadow grass Sombrero ensure a dense, attractive sward with excellent regenerative ability.

# PM79



PLAYING FIELD

## SPORTS FIELD RENOVATION

50% DOUBLE tetraploid perennial rye  
20% PONDEROSA perennial rye  
30% ESQUIRE perennial rye

Sowing rate: 35-75g/m<sup>2</sup>  
Overseeding: 25-75g/m<sup>2</sup>  
Mowing height: down to 25mm

The introduction of New Double 4Turf™ tetraploid ryegrass introduces the latest World cup genetics from DLF, delivering fast establishment, improved colour, drought tolerance, nitrogen efficiency and incredible disease resistance! A good quality, economical sports field renovation mixture. Contains only STRI UK listed cultivars. Delivers great results and value.

# PM80

RENOVATOR

## SPORTS FIELD RENOVATION

20% DOUBLE tetraploid perennial rye  
20% BIZET perennial rye  
30% PONDEROSA perennial rye  
30% PLATINUM perennial rye

Sowing rate: 35-75g/m<sup>2</sup>  
Overseeding: 35-75g/m<sup>2</sup>  
Mowing height: down to 25mm

An ideal mixture for the renovation of worn playing surfaces. New Double 4Turf™ tetraploid ryegrass ensures that Pro Master 80 will establish rapidly and the inclusion of Bizet perennial ryegrass provides a hard wearing turf with excellent colour and disease resistance.

# PM81



## PREMIER RENOVATION

### SPORTS FIELD RENOVATION

10% EURODIAMOND	perennial rye
20% COLUMBINE	perennial rye NEW
40% BIZET	perennial rye
30% BERLIOZ	perennial rye

Sowing rate:	35-75g/m <sup>2</sup>
Overseeding:	25-75g/m <sup>2</sup>
Mowing height:	down to 25mm

Pro Master 81 incorporating No 1 rated Eurodiamond and new Columbine, perennial ryegrass gives unrivalled sward density and wear tolerance. The mixture will establish rapidly providing excellent colour and disease resistance. As the name suggests, a mixture suitable for new builds and the renovation of top performance winter sports pitches.

# PM82



## MICROCLOVER SPORT

### SPORTS AND PLAYING FIELDS, REDUCED INPUT COSTS

30% PLATINUM	perennial rye
30% DOUBLE	tetraploid perennial rye
35% ESQUIRE	perennial rye
5%	microclover

Sowing rate:	25-50g/m <sup>2</sup>
Overseeding:	15-50g/m <sup>2</sup>
Mowing height:	down to 25mm

Microclover Sport has been developed to improve turf quality and be kind to the environment through reduced herbicide, fertiliser use and lower carbon footprint. The Microclover is able to fix free nitrogen from the atmosphere. In independent trials Microclover Sport is proven to produce a sward with increased wear tolerance, disease resistance, colour and a higher visual merit, especially in drought or other high stress environments.

# PM85



## DOT

### ROAD VERGES (DOT OFFICIAL MIX)

25% DOUBLE	tetraploid perennial rye
20% MAXIMA	strong creeping red fescue
30% TRIANA	hard fescue
10% EVORA	smooth stalked meadow grass
10% HIGHLAND	browntop bent
5% GALWAY	white clover

Sowing rate:	10-20g/m <sup>2</sup>
Overseeding:	10g/m <sup>2</sup>
Mowing height:	as necessary or twice/year to 75-100mm

The above mixture is ideally suited for road verges where the soil may not be of the best quality and where quick establishment, short growth, and some salt and exhaust fume tolerance are called for. Double 4Turf™ perennial ryegrass ensures fast establishment, improved drought tolerance and improved stability thanks to the deeper rooted growth habit.

# PM90



## COASTAL

### COASTAL SITES

15% DOUBLE	tetraploid perennial rye
30% HELENA	slender creeping red fescue
20% MAXIMA	strong creeping red fescue
20% TRIANA	hard fescue
10%	saltmarsh grass
2.5% KROMI	creeping bent
2.5% HIGHLAND	browntop bent

Sowing rate:	35g/m <sup>2</sup>
Overseeding:	25g/m <sup>2</sup>
Mowing height:	down to 12mm

The protection of our coastline is of paramount importance and the above mix is versatile enough to suit both flat and sloping aspects, able to produce a sward tolerant of salt laden winds. Double 4Turf™ tetraploid ryegrass is used for its rapid establishment.

# PM95



## WITH RYE

### LAND RECLAMATION INFERTILE, DROUGHT, ACID TO ALKALINE

20% DOUBLE	tetraploid perennial rye
25% HELENA	slender creeping red fescue
20% TRIANA	hard fescue
20%	crested dogstail
10% HIGHLAND	browntop bent
2.5%	small leaved white clover
2.5%	birdsfoot trefoil

Sowing rate:	10-25g/m <sup>2</sup>
Overseeding:	10g/m <sup>2</sup>
Mowing height:	versatile, light grazing or mow as required down to 75mm

Land reclamation mixture suitable for landfill/quarry sites and spoil heaps. The cultivars chosen represent the best that are commercially available. The perennial ryegrass will establish quickly and act as a nurse crop whilst the broad range of adaptable low maintenance species provide excellent tolerance to environmental stresses.

# PM105

## FERTILITY

### FERTILITY BUILDING PIONEER MIX

20%	alsike white clover
20%	red clover
20%	white clover
20%	yellow trefoil
20%	birdsfoot trefoil

Sowing rate:	5g/m <sup>2</sup>
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Pro Master 105 Pioneer mixture is ideally suited to land reclamation sites where short term cover is required or where fertility and soil structure needs to be improved.

# PM110

## FLORASCAPE

### LOW MAINTENANCE LANDSCAPE WITH WILD FLORA

18%	strong creeping red fescue
20%	crested dogs tail
27%	meadow fescue
24%	smooth stalked meadow grass
6%	browntop bent
5%	wild Flora

Sowing rate:	5-8g/m <sup>2</sup> , 50-80kg/ha
Mowing height:	once or twice a year to no lower than 100mm

This mix contains a wide range of wild flowers, formulated to meet a demand for creating an economical, floristically diverse sward. For full specification see Pro flora section.

# PM120



**SLOWGROWTH**

## LANDSCAPE, PARKLAND AND PLAY AREAS

60% ESQUIRE	perennial rye
35% HELENA	slender creeping red fescue
5% HIGHLAND	browntop bent

Sowing rate:	35-50g/m <sup>2</sup>
Overseeding:	25g/m <sup>2</sup>
Mowing height:	12-50mm as necessary

The cultivar Esquire is the key to the new mixture. Esquire has an excellent rating for slow regrowth, significantly reducing mowing costs. The new mixture is ideal for use in a variety of landscape situations, including housing estates, road verges, parkland and play areas, establishing rapidly to provide a dark, dense and attractive reduced maintenance lawn.

# PM125

**BIRDSTRIKE**

## AIRPORT LANDSCAPE AND BIRD STRIKE MIX

70%	tall fescue
15%	cocksfoot
10%	timothy
5%	crested dogstail

Sowing rate:	20g/m <sup>2</sup>
Overseeding:	10g/m <sup>2</sup>
Mowing height:	150mm optimum height requirement

Authorities responsible for the safety of aircraft have been concerned with the danger of damage caused by aircraft striking birds while in flight. Methods of reducing this have been sought, which has brought about the introduction of "Long Grass Management".

Tall fescue, Cocksfoot and Timothy, in that order were found to be the most suitable for a long grass policy. Tall fescue is the most promising species due to its erect stiff habit of growth. It is a highly persistent, frost and drought resistant species, and when managed at an optimum mown height of 150mm, the most suited to long grass management.

# HorseMax

**PADDOCK**



## PADDOCK, GRAZING MIX

35% BUTARA 1	intermediate perennial rye
20% PREMIUM	intermediate perennial rye
20% TYRCONNELL	late perennial rye
15% MAXIMA	creeping red fescue
10% PROMESSE	timothy

10kg bag [37 – 50kg/Ha]

A good quality, hard wearing paddock mixture, that will last for many years. The inclusion of strong creeping red fescue ensures good shoot density and minimises trampling damage in wet conditions. The mix provides palatable grazing and can be cut for hay if required. Cultivars lower in water soluble carbohydrate [sugar] will help to prevent the worst effects of laminitis. A 500 gram herb pack to improve animal interest and well being is also available.



# Pro Turf 1

👑 (WITH RYE)

## HIGH QUALITY LANDSCAPE TURF

15% CHARDIN	perennial rye
10% DICKENS	perennial rye
35% ROSSINANTE	strong creeping red fescue
10% CEZANNE	slender creeping red fescue
10% MUSICA	chewings fescue
20% SOMBRERO	smooth stalk meadow grass

Sowing rate: 25g/m<sup>2</sup>  
 Overseeding: down to 20mm  
 Harvest: 6-12 months

A top class mixture, capable of rapid establishment, providing a hard wearing turf, with excellent colour and disease resistance. The inclusion of Dickens and new Chardin rye grass combines all of the benefits associated with modern turf perennials, incredible fineness of leaf, shoot density and exceptional visual merit. New No1 rated Sombrero smooth stalked meadow grass improves drought tolerance and the rhizomatous root structure increases root strength, making the resultant turf more resistant to damage when lifting. Gromax coating available.

# Pro Turf 2

👑 (WITH RYE)



## HIGH QUALITY LANDSCAPE TURF

15% CONRAD	perennial rye
10% LIGALA	perennial rye
45% ROSSINANTE	strong creeping red fescue
20% VALDORA	slender creeping red fescue
10% BLENHEIM	chewings fescue

Sowing rate: 25g/m<sup>2</sup>  
 Mowing height: down to 20mm  
 Harvest: 6-12 months

A top class mixture, capable of rapid establishment, providing a hard wearing turf, with excellent colour and disease resistance. The inclusion of Ligala combines all of the benefits associated with modern turf perennials, incredible fineness of leaf and shoot density. The high proportion of creeping red fescue provides a rhizomatous root structure increasing root strength, making the resultant turf more resistant to damage when lifting. Gromax coating available.

# Pro Turf 3

👑 (WITH RYE ECONOMY)



## LANDSCAPE TURF

30% DOUBLE	tetraploid perennial rye
45% ROSSINANTE	strong creeping red fescue
25% WAGNER	chewings fescue

Sowing rate: 25g/m<sup>2</sup>  
 Mowing height: down to 20mm  
 Harvest: 6-12 months

A good, general purpose turf mixture, which will establish quickly and provide a hardwearing landscape turf, which will not be too demanding with regard to maintenance. New tetraploid ryegrass provides improved colour, drought tolerance and disease resistance. Gromax coating available.

# Pro Turf 4

👑 (WITHOUT RYE)

## FINE TURF

25% CEZANNE	slender creeping red fescue
25% VALDORA	slender creeping red fescue
25% MUSICA	chewings fescue
25% BLENHEIM	chewings fescue

Sowing rate: 25g/m<sup>2</sup>  
 Mowing height: 15-25mm  
 Harvest: 6-12 months

A mixture of the best varieties ensures the production of a truly first class traditional lawn turf. An important pre requisite is a clean seed bed, free from coarse species, so that the full benefit of the short, fine varieties can be seen. Gromax coating available.

# Turf Quality Seed

Turf Quality Seed (TQS) is the purest seed on the market. This can only be achieved by a series of processes from breeding, field production, logistics and finally, delivery to the customer. Each link in the chain has to be followed carefully to ensure success.

## HIGH QUALITY ENSURED THROUGH BREEDING

In the same way that only the best lots are entered into trials, only the highest quality lots are selected to go forward to produce pre basic seed. This seed is produced in small plots that are closely monitored. Harvesting and cleaning is done with small machines which can be cleaned down easily between plots.

## CLEAN PRODUCTION FIELDS

TQS production begins with the cleanest basic seed and impurities are not allowed. In order to achieve high quality, seed contracts are made with the most knowledgeable and experienced growers who select seed from the cleanest fields. If this is not possible in Europe then growers will be chosen elsewhere to achieve these exacting standards.

## HARVESTING AND PROCESSING

TQS fields and seed lots are specifically identified and labelled throughout the process. During harvest, combine harvesters receive extra attention for cleanliness. If there is any doubt about the quality of part of a field, this area is isolated and discarded. During the cleaning process, Turf Quality Seed lots undergo extra attention in the warehouse. The seed is cleaned slowly in order to get the highest possible quality.

## EXTENSIVELY TESTED

Turf Quality Seed lots undergo thorough tests in order to check on the success of the whole process. Normal seed lots are tested at the end of the process only, whereas TQS lots are tested after cleaning, blending and packaging.

Normal seed lots are checked for purity in 2,500 seeds per lot, TQS lots are checked three times in 25,000 seeds per lot.

Normal seed lots are checked for purity by visual examination only whereas Turf Quality Seed lots of ryegrass and tall fescue are checked for lolium multiflorum in a grow test as well.

## THE RESULT IS SUPERIOR QUALITY

Only if NO other seeds are found in these examinations, will the lot be granted the S1 Turf Quality Seed description. If the seed lot contains NO coarse grasses, but some traces of unharmed Dicot species, it will be labelled S2 Turf Quality Seed. And in case no other seeds are found in the examination of 2,500 seeds, but a trace is found in the tenfold quantity, the seed will be labelled as A - Turf Quality Seed.

Our procedures ensure that all our products meet the required standards. Turf Quality Seed exceeds these standards.

## SPECIALIST SPORTS TURF MIXTURE SERVICE

We are always pleased to advise upon and produce specialist mixtures for the production of high quality sports turf, including golf greens and hard wearing football and rugby pitches.

# Key Turf Production Cultivars

The following cultivars are available for custom turf blends. Please consult with your regional technical manager for mixture advice and availability

## PERENNIAL RYEGRASS - WINTER SPORT

Improved wear tolerance, rapid recovery, strong disease resistance  
Columbine / Monroe / Bizet / Berlioz / Ligala

## PERENNIAL RYEGRASS - LAWN AND LANDSCAPE

Fine leaved, High shoot density, strong disease resistance  
Chardin / Dickens / Dylan / Libero / Conrad / Cleopatra

## TURF TYPE TETRAPLOID RYEGRASS **NEW**

Rapid establishment, Drought tolerance, Exceptional disease resistance  
Fabian / Double

## CHEWINGS FESCUE

High shoot density, Extended visual merit, strong disease resistance  
Musica / Calliope / Wagner

## SLENDER CREEPING RED FESCUE

High shoot density, Stong soil binding characteristics  
Beudin / Cezanne / Valdora

## STRONG CREEPING RED FESCUE

Rapid establishment, Exceptional soil binding characteristics  
Rossinante / Herald

## SMOOTH STALKED MEADOW GRASS

High wear tolerance, High shoot density, Stong soil binding characteristics  
Sombbrero / Miracle

## TALL FESCUE

Exceptional drought tolerance  
Cannavaro / Debussy

## BENT GRASS

High shoot density, Tolerance of close mowing  
Capillaris – Arrowtown / Manor  
Stolonifera – Cobra nova  
Canina – Villa 1

# Pro Flora 1

WILD FLORA



## CORNFIELD ANNUALS

### WILD FLOWERS: 1 PART 20%

%	COMMON NAME	SPECIES	HEIGHT	COLOUR	PERIOD
30	CORN COCKLE	AGROSTEMMA GITHAGO	60-120	Purple	June - Aug
20	CORN FLOWER	CENTUREA CYANUS	30-60	Blue	June - Aug
15	CORN MARIGOLD	CHRYSANTHEMUM SEGETUM	15-45	Yellow	June - Oct
5	CORN POPPY	PAPAVER RHOEAS	30-60	Red	June - Sept
10	WHITE CAMPION	SILENE ALBA	60-90	White	May - Sept
20	CORN CHAMOMILE	ANTHEMIS ARVENSIS	15-50	White	June - July

100

### GRASSES: 4 PARTS 80%

20	RED FESCUE	FESTUCA RUBRA	15-90
24	CRESTED DOGSTAIL	CYNOSURUS CRISTATUS	5-75
40	SHEEPS FESCUE	FESTUCA OVINA	5-60
8	BROWNTOP BENT	AGROSTIS CASTELLANA	10-70
8	SMOOTH STALKED MEADOW GRASS	POA PRATENSIS	10-90

100

# Pro Flora 2

WILD FLORA



## ACID SOILS

### WILD FLOWERS: 1 PART 20%

%	COMMON NAME	SPECIES	HEIGHT	COLOUR	PERIOD
6	BETONY	STACHYS OFFICIANLIS	30-80	Purple	June - Sept
4	BIRDSFOOT TREFOIL	LOTUS CORNICULATUS	5-40	Yellow	June - Aug
7	BLACK KNAPWEED	CENTAUREA NIGRA	30-80	Purple	June - Sept
1	COMMON CATS EAR	HYPOCHAERIS RADICATA	15-60	Yellow	June - Sept
3	DEVILS BIT SCABIOUS	SUCCISA PRATENSIS	80	Blue	July - Sept
4	FOXGLOVE	DIGITALIS PURPUREA	50-150	Purple	June - Sept
10	FRAGRANT AGRIMONY	AGRIMONIA PROCERA	40-150	Yellow	June - Aug
4	GREATER BIRDSFOOT TREFOIL	LOTUS ULIGINOSUS	50-60	Yellow	June - Aug
10	LADY'S BEDSTRAW	GALIUM VERUM	50-80	Yellow	June - Sept
10	MEADOW BUTTERCUP	RANUNCULUS ACRIS	30-100	Yellow	May - Sept
5	OX-EYE DAISY	LEUCANTHERMUM VULGARE	20-100	White	May - Oct
4	RAGGED ROBIN	LYCHNIS FLOS-CUCULI	30-80	Red	May - June
2	SHEEP SORREL	RUMEX ACETOSELLA	30-100	Pink	May - June
4	SNEEZEWORD	ACHILLEA PTARMICA	20-150	White	July - Sept
4	SORREL	RUMEX ACETOSA	30-100	Pink	May - July
10	TUFTED VETCH	VICIA CRACCA	100-200	Purple	June - Aug
8	YARROW	ACHILLEA MILLEFOLIUM	20-45	White	June - Oct
4	YELLOW RATTLE	RHIANTHUS MINOR	15-40	Yellow	May - Aug

100

### GRASSES: 4 PARTS 80%

10	BROWNTOP BENT	AGROSTIS CASTELLANA	10-70
5	SWEET VERNAL	ANTHOXANTHUM ODORATUM	10-100
20	CRESTED DOGSTAIL	CYNOSURUS CRISTATUS	5-75
5	WAVY HAIRGRASS	DESCHAMPSIA FLEXUOSA	20-100
40	SHEEPS FESCUE	FESTUCA OVINA	5-60
20	SLENDER RED FESCUE	FESTUCA RUBRA LITORALIS	22-100

100

# Pro Flora 3

WILD FLORA



## DAMP LOAMY SOILS

### WILD FLOWERS: 1 PART 20%

%	COMMON NAME	SPECIES	HEIGHT	COLOUR	PERIOD
2	AUTUMN HAWKBIT	LEONTODON AUTUMNALIS	5-15	Yellow	Aug - Oct
5	BETONY	STACHYS OFFICIANLIS	30-80	Purple	June - Sept
5	BIRDSFOOT TREFOIL	LOTUS CORNICULATUS	5-40	Yellow	June - Aug
10	BLACK KNAPWEED	CENTAUREA NIGRA	30-80	Purple	June - Sept
4	GOATSBEARD	TRAGAPOGON PRATENSIS	30-60	Yellow	June - Sept
3	GREATER BURNET	SANGUISORBA OFFICIANALIS	20-50	Red	June - Sept
10	MEADOW BUTTERCUP	RANUNCULUS ACRIS	30-100	Yellow	May - Sept
4	MEADOW CRANESBILL	GERANIUM PRATENSE	30-60	Blue	June - Sept
2	MEADOW VETCHLING	LATHYRUS PRATENSIS	80-100	Yellow	May - Aug
6	OX-EYE DAISY	LEUCANTHERMUM VULGARE	20-100	White	May - Oct
2	ROUGH HAWKBIT	LEONTODON HISPIDUS	20-50	Yellow	June - Oct
14	SELFHEAL	PRUNELLA VULGARIS	5-20	Purple	June - Sept
4	SORREL	RUMUX ACETOSA	30-100	Pink	May - July
12	TUFTED VETCH	VICIA CRACCA	100-200	Purple	June - Aug
8	YARROW	ACHILLEA MILLEFOLIUM	20-45	White	June - Oct
9	YELLOW RATTLE	RHIANTHUS MINOR	15-40	Yellow	May - Aug

100

### GRASSES: 4 PARTS 80%

5	BROWNTOP BENTGRASS	AGROSTIS CASTELLANA	10-70
13	CHEWINGS FESCUE	FESTUCA RUBRA COMMUTATA	20-90
16	CRESTED DOGSTAIL	CYNOSURUS CRISTATUS	5-75
11	GOLDEN OATGRASS	TRisetum FLAVESCENS	20-80
7	MEADOW FOXTAIL	ALOPECURUS PRATENSIS	30-120
16	SHEEPS FESCUE	FESTUCA OVINA	5-60
20	SLENDER RED FESCUE	FESTUCA RUBRA LITORALIS	22-100
12	SMOOTH STALKED MEADOW GRASS	POA PRATENSIS	10-90

100

# Pro Flora 4

WILD FLORA



## CALCAREOUS SOILS

### WILD FLOWERS: 1 PART 20%

%	COMMON NAME	SPECIES	HEIGHT	COLOUR	PERIOD
7	BETONY	STACHYS OFFICIANLIS	30-80	Purple	June - Sept
6	BIRDSFOOT TREFOIL	LOTUS CORNICULATUS	5-40	Yellow	June - Aug
4	BLADDER CAMPION	SILENE VULGARIS	80	White	May - Sept
9	BULBOUS BUTTERCUP	RANUNCULUS BULBOSUS	15-35	Yellow	May - Aug
4	COMMON TOADFLAX	LINARIA VULGARIS	80-100	Yellow	June - Oct
3	COWSLIP	PRIMULA VERIS	10-30	Yellow	April - June
2	DARK MULLEIN	VERBASCUM NIGRAM	110-130	Yellow	June - Sept
4	DROPWORT	FILIPENDULA VULGARIS	20-50	White	May - June
5	GREATER KNAPWEED	CENTAUREA SCABIOSA	50-90	Purple	July - Aug
5	HOARY PLANTAIN	PLANTAGO MEDIA	15-45	Pink	May - July
6	KIDNEY VETCH	ANTHYLLIS VULNEARIA	15-30	Yellow	May - Aug
6	LADY'S BEDSTRAW	GALIUM VERUM	50-80	Yellow	June - Sept
7	MEADOW BUTTERCUP	RANUNCULUS ACRIS	30-100	Yellow	May - Sept
4	OX-EYE DAISY	LEUCANTHERMUM VULGARE	20-100	White	May - Oct
4	SMALL SCABIOUS	SCABIOSA COLUMBARIA	20-45	Lilac	June - Aug
10	TUFTED VETCH	VICIA CRACCA	100-200	Purple	June - Aug
8	WILD CARROT	DAUCUS CAROTA	30-100	White	June - Sept
2	WILD MARJORAM	ORIGANUM VULGARE	30-60	Purple	July - Sept
4	WILD MIGNONETTE	RESEDA LUTEA	20-50	Yellow	June - Aug

100

### GRASSES: 4 PARTS 80%

5	BROWNTOP BENTGRASS	AGROSTIS CASTELLANA	10-70
19	SMOOTH STALKED MEADOW GRASS	POA PRATENSIS	10-90
17	CRESTED DOGSTAIL	CYNOSURUS CRISTATUS	5-75
7	GOLDEN OATGRASS	TRisetum FLAVESCENS	20-80
1	QUAKING GRASS	BRIZA MEDIA	15-75
20	SHEEPS FESCUE	FESTUCA OVINA	5-60
23	SLENDER RED FESCUE	FESTUCA RUBRA LITORALIS	22-100
5	SMALLER CATSTAIL	PHLEUM BERTOLONII	10-50
3	UPRIGHT BROME	BROMUS ERECTUS	40-120

100

# Pro Flora 5

WILD FLORA



## WET LOAMY SOILS

### WILD FLOWERS: 1 PART 20%

%	COMMON NAME	SPECIES	HEIGHT	COLOUR	PERIOD
8	BETONY	STACHYS OFFICIANLIS	30-80	Purple	June - Sept
6	BLACK KNAPWEED	CENTAUREA NIGRA	30-80	Purple	June - Sept
4	DEVILS BIT SCABIOUS	SUCCISA PRATENSIS	20-80	Lilac	July - Sept
5	GREATER BIRDSFOOT TREFOIL	LOTUS ULIGINOSUS	5-15	Yellow	Aug - Oct
3	GYPSYWORT	COPUS EUROPAEUS	100-130	White	July - Sept
4	HEMP AGRIMONY	EUPATORIUM CANNABINUM	100	White	July - Sept
5	MARSH WOUNDWORT	STACHYS PALUSTRIS	70-90	Purple	July - Sept
12	MEADOW BUTTERCUP	RANUNCULUS ACRIS	30-100	Yellow	May - Sept
6	MEADOW RUE	THALICTRUM FLAVUM	80	Yellow	July - Aug
6	MEADOWSWEET	FILIPENDULA ULMARIA	50-150	White	June - Aug
7	OX-EYE DAISY	LEUCANTHERMUM VULGARE	20-100	White	May - Oct
4	PURPLE LOOSESTRIFE	LYTHRUM SALICARIA	50-100	Purple	July - Sept
3	RAGGED ROBIN	LYCHNIS FLOS-CUCULI	30-80	Red	May - June
4	SNEEZEWORT	ACHILLEA PTARMICA	20-150	White	July - Sept
4	SQ. STEM ST. JOHN'S WORT	HYPERICUM TETRAPTERUM	30-60	Yellow	July - Sept
6	YELLOW FLAG IRIS	IRIS PSEUDACORUS	60-120	Yellow	May - July
13	YELLOW RATTLE	RHINANTHUS MINOR	15-40	Yellow	May - Aug

100

### GRASSES: 4 PARTS 80%

4	BROWNTOP BENTGRASS	AGROSTIS CASTELLANA	10-70
12	CHEWINGS FESCUE	FESTUCA RUBRA COMMUTATA	20-90
3	COMMON SEDGE	CAREX NIGRA	300
15	CRESTED DOGSTAIL	CYNOSURUS CRISTATUS	5-75
5	MEADOW BARLEY	HORDEUM SECALINUM	20-80
6	MEADOW FOXTAIL	ALOPECURUS PRATENSIS	30-120
2	PENDULAS SEDGE	CAREX PENDULA	180
16	SHEEPS FESCUE	FESTUCA OVINA	5-60
20	SLENDER RED FESCUE	FESTUCA RUBRA LITORALIS	22-100
11	SMOOTH STALKED MEADOW GRASS	POA PRATENSIS	10-90
5	SWEET VERNAL	ANTHOXANTHUM ODORATUM	10-100
1	TUFTED HAIRGRASS	DESCHAMPSIA CAESPITOSA	

100

# Pro Flora 6

WILD FLORA



## DRY LOAMY SOILS

### WILD FLOWERS: 1 PART 20%

%	COMMON NAME	SPECIES	HEIGHT	COLOUR	PERIOD
3	AUTUMN HAWKBIT	LEONTODON AUTUMNALIS	5-15	Yellow	Aug - Oct
7	BIRDSFOOT TREFOIL	LOTUS CORNICULATUS	5-40	Yellow	June - Aug
10	BLACK KNAPWEED	CENTAUREA NIGRA	30-80	Purple	June - Sept
4	BLADDER CAMPION	SILENE VULGARIS	80	White	May - Sept
9	BULBOUS BUTTERCUP	RANUNCULUS BULBOSUS	15-35	Yellow	May - Sept
8	COMMON AGRIMONY	AGRIMONY EUPATORIA	30-60	Yellow	July - Sept
1	COMMON TOADFLAX	LINARIA VULGARIS	80-10	Yellow	June - Oct
4	COWSLIP	PRIMULA VERIS	10-30	Yellow	April - June
8	FIELD SCABIOUS	KNAUTIA ARVENENSIS	30-90	Lilac	July - Sept
1	GREAT MULLEIN	VERBASACUM THAPSUS	150-200	Yellow	July - Sept
5	LADY'S BEDSTRAW	GALIUM VERUM	50-80	Yellow	June - Sept
7	MUSK MALLOW	MALVA MOSCHATA	20-80	Pink	July - Oct
7	OX-EYE DAISY	LEUCANTHERMUM VULGARE	20-100	White	May - Oct
5	SALAD BURNET	SANGUISORBA MINOR	30	Yellow	May - Aug
6	WILD CARROT	DAUCUS CAROTA	30-100	White	June - Sept
7	YARROW	ACHILLEA MILLEFOLIUM	20-45	White	June - Oct
8	YELLOW RATTLE	RHIANHUS MINOR	15-40	Yellow	May - Aug

100

### GRASSES: 4 PARTS 80%

5	BROWNTOP BENTGRASS	AGROSTIS CASTELLANA	10-70
15	CHEWINGS FESCUE	FESTUCA RUBRA COMMUTATA	20-90
16	CRESTED DOGSTAIL	CYNOSURUS CRISTATUS	5-75
7	GOLDEN OATGRASS	TRisetum FLAVESCENS	20-80
16	SHEEPS FESCUE	FESTUCA OVINA	5-60
20	SLENDER RED FESCUE	FESTUCA RUBRA LITORALIS	22-100
7	SMALLER CATSTAIL	PHLEUM BERTOLONII	10-50
14	SMOOTH STALKED MEADOW GRASS	POA PRATENSIS	10-90

100

# Pro Flora 7

WILD FLORA



## HEDGEROW AND LIGHT SHADE

### WILD FLOWERS: 1 PART 20%

%	COMMON NAME	SPECIES	HEIGHT	COLOUR	PERIOD
6	BETONY	STACHYS OFFICINALIS	30-80	Purple	June - Sept
4	COMMON ST. JOHN'S WORT	HYPERICUM PERFORATUM	30-90	Yellow	June - Sept
4	COLUMBINE	AQUILEGIA VULGARIS	100	Purple	May - June
6	FOXGLOVE	DIGITALIS PURPUREA	50-150	Purple	June - Sept
4	GREATER MULLEIN	VERBASCUM THAPSUS	40-200	Yellow	July - Sept
5	HAIRY ST. JOHN'S WORT	HYPERICUM HIRSUTUM	40-100	Yellow	July - Aug
8	HEDGE BEDSTRAW	GALIUM MOLLUGO	100	White	June - Sept
10	HEDGE GARLIC	ALLIARIA PETIOLATA	90-125	White	May - Aug
8	HEDGE WOUNDWORT	STACHYS SYLVATICA	30-100	Red	July - Aug
2	LESSER STITCHWORT	STELLARIA GRAMINEA	80	White	May - July
4	MUSK MALLOW	MALVA MOSCHATA	60	Pink	May - Aug
4	NETTLE LEAVED BELLFLOWER	CAMPANULA TRACHELIUM	80	Blue	July - Sept
11	RED CAMPION	SILENE DIOICA	50-80	Red	May - Nov
11	SELFHEAL	PRUNELLA VULGARIS	5-20	Purple	June - Sept
6	UPRIGHT HEDGE PARSLEY	TORILIS JAPONICA	80-100	White	July - Aug
3	WOOD AVENS	GEUM URBANUM	40-60	Yellow	May - June
4	WOOD SAGE	TEUCRIUM SCORODONIA	20-30	Yellow	July - Sept

100

### GRASSES: 4 PARTS 80%

5	BROWNTOP BENTGRASS	AGROSTIS CASTELLANA	10-70
15	CHEWINGS FESCUE	FESTUCA RUBRA COMMUTATA	20-90
20	CRESTED DOGSTAIL	CYNOSURUS CRISTATUS	5-75
20	SHEEPS FESCUE	FESTUCA OVINA	5-60
15	SLENDER RED FESCUE	FESTUCA RUBRA LITORALIS	22-100
5	TUFTED HAIRGRASS	DESCHAMPSIA CAESPITOSA	20-200
20	WOOD MEADOW GRASS	POA MEMORALIS	15-90

100

# Pro Flora 8

WILD FLORA



## LEGACY COUNTRY MEADOW (GENERAL PURPOSE)

### WILD FLOWERS: 1 PART 20%

%	COMMON NAME	SPECIES	HEIGHT	COLOUR	PERIOD
5	BIRDSFOOT TREFOIL	LOTUS CORNICULATUS	5-15	Yellow	Aug - Oct
8	BLACK KNAPWEED	CENTAUREA NIGRA	30-80	Purple	June - Sept
5	BLACK MEDICK	MEDICAGO LUPILINA	15-50	Yellow	May - Sept
5	COMMON VETCH	VICIA SATIVA	20-45	Purple	April - Sept
7	MEADOW BUTTERCUP	RANUNCULUS ACRIS	30-100	Yellow	May - Sept
4	MUSK MALLOW	MALVA MOSCHATA	60	Pink	May - Aug
12	OX-EYE DAISY	LEUCANTHEMUM VULGARE	20-100	White	May - Oct
12	RIBWORT PLANTAIN	PLANTAGO LANCEOLATA	5-50	Brown	May - Sept
8	RED CAMPION	SILENE DIOICA	80	Red	May - Sept
13	SELF HEAL	PRUNELLA VULGARIS	5-20	Purple	June - Sep
15	WHITE CAMPION	SILENE ALBA	30-100	White	May - Sept
6	YARROW	ACHILLEA MILLIFOLIUM	20-45	White	June - Oct

100

### GRASSES: 4 PARTS 80%

7.0	BROWNTOP BENT	AGROSTIS CASTELLANA	10-70
18.5	RED FESCUE	FESTUCA RUBRA	15-90
21.0	CRESTED DOGSTAIL	CYNOSURUS CRISTATUS	5-75
28.5	MEADOW FESCUE	FESTUCA PRATENSIS	30-120
25.0	SMOOTH STALKED MEADOW GRASS	POA PRATENSIS	10-90

100

# Pro Flora 9

WILD FLORA



## HERITAGE GENERAL PURPOSE

### WILD FLOWERS: 1 PART 10%

%	COMMON NAME	SPECIES	HEIGHT	COLOUR	PERIOD
4.3	AGRIMONY	AGRIMONIA EUPATORIA	50-80	Yellow	June Aug
2.05	BETONY	STACHYS OFFICINALIS	30-80	Purple	June Sept
4.05	BIRDSFOOT TREFOIL	LOTUS CORNICULATUS	5-40	Yellow	June Aug
6.05	BLACK KNAPWEED	CENTAUREA NIGRA	30-80	Purple	June Sept
8.8	COMMON VETCH	VICIA SATIVA	20-45	Purple	April Sept
10	CORNRICKLE	AGROSTEMMA GITHAGO	60-120	Purple	June Aug
4.05	CORN FEVERFEW	MATRICARIA PERFORATA	10-80	White	April Nov
1.25	COWSLIP	PRIMULA VERIS	10-30	Yellow	April June
2.25	FIELD POPPY	PAPAVER RHOEAS	30-60	Red	June Sept
.7	FOXGLOVE	DIGITALIS PURPUREA	50-150	Purple	June Sept
2.60	HEDGE BEDSTRAW	GALIUM MOLLUGO	100	White	June Sept
1.5	HOARY PLANTAIN	PLANTAGO MEDIA	15-45	Pink	May July
2.6	LADY'S BEDSTRAW	GALIUM VERUM	50-80	Yellow	June Sept
6.1	SALAD BURNET	SANGUISORBA MINOR MINOR	20-90	Yellow	May Sept
4.05	MEADOW BUTTERCUP	RANUNCULUS ACRIS	30-100	Yellow	May Sept
4.05	MUSK MALLOW	MALVA MOSCHATA	20-80	Pink	July Oct
4	OXEYE DAISY	LEUCANTHEMUM VULGARE	20-100	White	May Oct
.5	RAGGED ROBIN	LYCHNIS FLOS-CUCULI	30-80	Red	May June
.35	ST JOHNS WORT	HYPERICUM PERFORATUM	30-100	Yellow	June Sept
2.55	RED CAMPION	SILENE DIOICA	60-80	Red	May Nov
5.10	RIBWORT PLANTAIN	PLANTAGO LANCEOLATA	5-50	Brown	May Sept
4.55	SELFHEAL	PRUNELLA VULGARIS	5-20	Purple	June Sept
1.7	WILD CARROT	DAUCUS CAROTA	30-100	White	June Sept
5.1	WILD CLARY	SALVIA VERBANACA	80	Blue	May Sept
5.1	WILD PARSNIP	PASTINACA SATIVA	150	Yellow	May Sept
3.05	WHITE CAMPION	SILENE PRATENSE	30-100	White	May Sept
2.6	WOOD AVENS	GEUM URBANUM	40-60	Yellow	May June
1	YARROW	ACHILLEA MILLEFOLIUM	20-45	White	June Oct

100

### GRASSES: 4 PARTS 90%

1	SWEET VERNAL GRASS	ANTHOXANTHUM ODERATUM
2.8	MEADOW FOXTAIL	ALOPERCURUS PRATENSE
8.75	CRESTED DOGSTAIL	CYNOSURUS CRISTATUS
8	SMOOTH STALKED MEADOW GRASS	POA PRATENSIS
15.08	SLENDER RED FESCUE	FESTUCA RUBRA LITORALIS
9.37	BROWNTOP BENTGRASS	AGROSTIS CASTELLANA
20	SHEEPS FESCUE	FESTUCA OVINA
20	CHEWING FESCUE	FESTUCA RUBRA COMMUTATA
7	WOOD MEADOW GRASS	POA NEMORALIS
4	SALT MARSH GRASS	PUCINELLA DISTANS
2	YELLOW OATGRASS	TRisetum FLAVESCENS
2	ROUGH STALKED MEADOW GRASS	POA TRIVIALIS

100

# Pro Flora 10

WILD FLORA



## GENERAL PURPOSE PLUS ANNUALS

### WILD FLOWERS: 1 PART 10%

%	COMMON NAME	SPECIES	HEIGHT	COLOUR	PERIOD
3	BIRDSFOOT TREFOIL	LOTUS CORNICULATUS	5-15	Yellow	Aug - Oct
8	BLACK KNAPWEED	CENTAUREA NIGRA	30-80	Purple	June - Sept
4	BLACK MEDICK	MEDICAGO LUPILINA	15-50	Yellow	May - Sept
5	COMMON VETCH	VICIA SATIVA	20-45	Purple	April - Sept
7	CORN COCKLE	AGROSTEMMA GITHAGO	60-120	Purple	June - Aug
7	CORN MARIGOLD	CHRYSANTHEMUM SEGETUM	15-45	Yellow	June - Oct
3	CORN POPPY	PAPAVER RHOEAS	30-60	Red	June - Sept
5	MEADOW BUTTERCUP	RANUNCULUS ACRIS	30-100	Yellow	May - Sept
4	MUSK MALLOW	MALVA MOSCHATA	60	Pink	May - Aug
12	OX-EYE DAISY	LEUCANTHEMUM VULGARE	20-100	White	May - Oct
10	RIBWORT PLANTAIN	PLANTAGO LANCEOLATA	5-50	Brown	May - Sept
5	RED CAMPION	SILENE DIOICA	30-100	Red	May - Sept
13	SELF HEAL	PRUNELLA VULGARIS	5-20	Purple	June - Sept
10	WHITE CAMPION	SILENE ALBA	30-100	White	May - Sept
4	YARROW	ACHILLEA MILLEFOLIUM	20-45	White	June - Oct

100

### GRASSES: 4 PARTS 90%

7.0	BROWNTOP BENTGRASS	AGROSTIS CASTELLANA	10-70
18.5	RED FESCUE	FESTUCA RUBRA	15-90
21.0	CRESTED DOGSTAIL	CYNOSURUS CRISTATUS	5-75
28.5	MEADOW FESCUE	FESTUCA PRATENSIS	30-120
25.0	SMOOTH STALK MEADOW GRASS	POA PRATENSIS	10-90

100

# Pro Flora 11

WILD FLORA



## WOODLAND AND HEAVY SHADE

### WILD FLOWERS: 1 PART 20%

%	COMMON NAME	SPECIES	HEIGHT	COLOUR	PERIOD
12	BLUE BELL	HYACINTHOIDES NON-SCRIPTA	50	Blue	April - June
4	COLUMBINE	AQUILEGIA VULGARIS	100	Purple	May - June
3	FIGWORT	SCROPHULARIA NODOSA	50-85	Red	June - Sept
8	FOXGLOVE	DIGITALIS PURPUREA	50-150	Purple	June - Sept
2	GREATER STITCHWORT	STELLARIA HOLOSTEA	50	White	April - June
6	HAIRY ST. JOHN'S WORT	HYPERICUM HIRSUTUM	40-100	Yellow	July - Aug
7	HEDGE BEDSTRAW	GALIUM MOLLUGO	100	White	June - Sept
3	HEMP AGRIMONY	EUPATORIUM CANNABINUM	100	White	July - Sept
6	MEADOWSWEET	FILIPENDULA ULMARIA	50-150	White	June - Aug
4	NETTLE-LEAVED BELLFLOWER	CAMPANULA TRACHELIUM	80	Blue	July - Sept
13	RED CAMPION	SILENE DIOICA	50-80	Red	May - Nov
10	WILD ANGELICA	ANGELICA SYLVESTRIS	150	White	July - Sept
4	WOOD AVENS	GEUM URBANUM	20-60	Yellow	June - Aug
6	WOOD SAGE	TEUCRIUM SCORODONIA	20-30	Yellow	July - Sept
12	WOOD VETCH	VICIA SYLVATICA	130	Pink	June - Aug

100

### GRASSES: 4 PARTS 80%

5	BROWNTOP BENTGRASS	AGROSTIS CASTELLANA	10-70
15	CHEWINGS FESCUE	FESTUCA RUBRA COMMUTATA	20-60
20	CRESTED DOGSTAIL	CYNOSURUS CRISTATUS	5-75
20	SHEEPS FESCUE	FESTUCA OVINA	5-60
15	SLENDER RED FESCUE	FESTUCA RUBRA LITORALIS	22-100
5	TUFTED HAIRGRASS	DESCHAMPسيا CAESPITOSA	20-200
20	WOOD MEADOW GRASS	POA NEMORALIS	15-90

100

# Pro Flora 12

WILD FLORA



## WATER MARGIN AND POND EDGES

### WILD FLOWERS: 1 PART 20%

%	COMMON NAME	SPECIES	HEIGHT	COLOUR	PERIOD
2	COMMON FLEABANE	PULICARIA DYSENTERICA	30-80	Yellow	July - Sept
6	GIPSY WORT	LYCOPUS EUROPAEUS	100	White	June - Sept
6	GREATER BIRDSFOOT TREFOIL	LOTUS ULIGINOSUS	5-15	Yellow	Aug - Sept
4	HEMP AGRIMONY	EUPATORIUM CANNABINUM	100	White	July - Sept
2	MARSH MARIGOLD	CALTHA PALUSTRIS	100	Pink	July - Sept
9	MARSH WOUNDWORT	STACHYS PALUSTRIS	70-90	Purple	July - Sept
8	MEADOW RUE	THALICTRUM FLAVUM	80	Yellow	July - Aug
15	MEADOWSWEET	FILIPENDULA ULMARIA	5-150	White	June - Aug
5	PURPLE LOOSESTRIFE	LYTHRUM SALICARIA	50-100	Purple	July - Sept
9	RAGGED ROBIN	LYCHNIS FLOS-CUCULI	30-80	Red	May - June
7	SNEEZEWORT	ACHILLEA PTARMICA	20-150	White	July - Sept
6	SQUARE STEMMED ST. JOHN'S WORT	HYPERICUM TETRAPTERUM	30-60	Yellow	July - Sept
3	WATER AVENS	GEUM RIVALE	60	Pink	April - July
18	YELLOW FLAG IRIS	IRIS PSEUDACORUS	15-40	Yellow	May - Aug

100

### GRASSES: 19 PARTS 80%

5.0	BROWNTOP BENTGRASS	AGROSTIS CASTELLANA	10-70
0.5	COMMON SEDGE	CAREX NIGRA	300
20.0	CRESTED DOGSTAIL	CYNOSURUS CRISTATUS	5-75
10.0	MEADOW FOXTAIL	ALOPECURUS PRATENSIS	30-120
0.5	PENDULAS SEDGE	CAREX PENDULA	180
7.0	ROUGH STALKED MEADOW GRASS	POA TRIVIALIS	20-100
38.0	SHEEPS FESCUE	FESTUCA OVINA	5-60
4.0	SWEET VERNAL	ANTHOXANTHUM ODORATUM	10-100
15.0	TUFTED HAIRGRASS	DESCHAMPسيا CAESPITOSA	20-200

100

# Pro Flora 110

 WILD FLORA



## GENERAL PURPOSE (ECONOMY PLUS ANNUALS)

### WILD FLOWERS: 1 PART 5%

%	COMMON NAME	SPECIES	HEIGHT	COLOUR	PERIOD
3	BIRDSFOOT TREFOIL	LOTUS CORNICULATUS	5-15	Yellow	Aug - Oct
8	BLACK KNAPWEED	CENTAUREA NIGRA	30-80	Purple	June - Sept
4	BLACK MEDICK	MEDICAGO LUPILINA	15-50	Yellow	May - Sept
5	COMMON VETCH	VICIA SATIVA	20-45	Purple	April - Sept
7	CORN COCKLE	AGROSTEMMA GITHAGO	60-120	Purple	June - Aug
7	CORN MARIGOLD	CHRYSANTHEMUM SEGETUM	15-45	Yellow	June - Oct
3	CORN POPPY	PAPAVER RHOEAS	30-60	Red	June - Sep
5	MEADOW BUTTERCUP	RANUNCULUS ACRIS	30-100	Yellow	May - Sept
4	MUSK MALLOW	MALVA MOSCHATA	60	Pink	May - Aug
12	OX-EYE DAISY	LEUCANTHEMUM VULGARE	20-100	White	May - Oct
10	RIBWORT PLANTAIN	PLANTAGO LANCEOLATA	5-50	Brown	May - Sept
5	RED CAMPION	SILENE DIOICA	30-100	Red	May - Sept
13	SELF HEAL	PRUNELLA VULGARIS	5-20	Purple	June - Sept
10	WHITE CAMPION	SILENE ALBA	30-100	White	May - Sept
4	YARROW	ACHILLEA MILLIFOLIUM	20-45	White	June - Oct

100

### GRASSES: 19 PARTS 95%

7.0	BROWNTOP BENTGRASS	AGROSTIS CASTELLANA	10-20
18.5	RED FESCUE	FESTUCA RUBRA	15-90
21.0	CRESTED DOGSTAIL	CYNOSURUS CRISTATUS	5-75
28.5	MEADOW FESCUE	FESTUCA PRATENSIS	30-120
25.0	SMOOTH STALKED MEADOW GRASS	POA PRATENSIS	10-90

100

## Management Guidelines

### SITE PREPARATION

The aim is to produce a firm weed-free tilth. Subsoils often provide a weed-free, low nutrient status seed bed, and are therefore suitable for wild flora. It is occasionally necessary to remove the topsoil in areas of high fertility, as these soils tend to promote the growth of more vigorous grasses and pernicious weeds. Treat existing vegetation with a systemic herbicide prior to seed bed cultivation, taking note of any site constraints and manufacturer's instructions first.

### SUMMARY

- Treat with herbicide, cultivate the site and allow to remain fallow if practical. A repeat herbicide application may be necessary.
- Remove topsoil if applicable
- Cultivate to 10cm
- Create a surface tilth

### SOWING

Sowing can take place throughout most of the year, providing a good tilth can be prepared, however the months of March/April and August/September are generally the most suitable.

- Regularly mix seed to ensure even species distribution, drill or broadcast.
- Sow at 5g/m<sup>2</sup> mixtures with grass 0.5-1.0g/m<sup>2</sup> for pure wild flower mixtures
- Bulk up small seeding rates with 4 parts silica sand to one part seed by weight.
- Rake or harrow - mix seed into soil (depth approx 0.5cm) Cambridge roll to firm seed bed

### WILD FLOWER MAINTENANCE

#### FIRST YEAR

In the first year control the weeds and reduce competition from grasses. Cut the sward to a height of 5-7cm every two months or when the sward reaches 15cm. Remove all the cuttings. Dig out or spot treat any perennial weeds.

#### FUTURE MAINTENANCE

Cut to 7.5cm during March/April and remove cuttings.

A second cut should take place at the end of the flowering season during August/October. Remove all cuttings.

Further cuts in the autumn period to remove untidy growth may be required.

### MAINTENANCE SUMMARY

#### FIRST YEAR

First cut 5cm March/April  
(Spring Seeding 1st cut in May)

Cut every 2 months or when sward reaches 15cm  
Final cut September/October. Remove all cuttings

#### FUTURE YEARS

First cut 7.5cm March/April

Second cut 7.5cm August/October

Remove all cuttings

### CORNFIELD ANNUALS

Make the first cut in early March and a second cut once the flowering period is over - September/October.

Harrow autumn or spring and overseed to regenerate annuals.

# Fertiliser

The Pro Fert range of fertilisers has been specially formulated with the Landscaper and Turf Manager in mind. All products are supplied in easy to handle 20kg bags and are all available for next day delivery.

## Pro Fert 1



### PRE-SEED FERTILISER

**ANALYSIS:**  
6: 9: 6  
COMPOUND BLEND

Application Rates: 35-70g/m<sup>2</sup>

**USE:** Mainly in pre-seed situations (spring and autumn) to promote a healthy and vigorous root system. Can also be used as an economical top dressing.

## Pro Fert 2



### PRE-SEED FERTILISER

**ANALYSIS:**  
10: 15: 10  
COMPOUND BLEND

Application Rates: 35-50g/m<sup>2</sup>

**USE:** Mainly pre-seed situations (spring and autumn), or as a spring dressing on outfield sports turf. The plant nutrient ratio of 1: 1.5: 1 is well recognised.

## Pro Fert 3



### SPRING/SUMMER FERTILISER

**ANALYSIS:**  
12: 6: 6  
COMPOUND BLEND

Application Rates: 50g/m<sup>2</sup>

**USE:** An ideal pre-seed fertiliser or as a spring/summer feed to bring on established turf following the winter.

**APPLY:** between March and September.

## Pro Fert 4



### SPRING/SUMMER FERTILISER

**ANALYSIS:**  
14: 0: 7+3MGO + 2FE  
1-2MM MINI COMPOUND GRANULE

Application Rates: 50g/m<sup>2</sup>

A high nitrogen low phosphate fertiliser ideal for all amenity turf situations, this mini compound granule promotes a strong, dense and healthy turf with excellent colour.

**USE:** An ideal pre-seed fertiliser or as a spring/summer feed to bring on established turf following the winter.

**APPLY:** between March and September.

## Pro Fert 6



### AUTUMN/WINTER FERTILISER

**ANALYSIS:**  
3: 12: 12  
2-4MM COMPOUND GRANULE

Application Rates: 50g/m<sup>2</sup>

A low nitrogen fertiliser with high phosphate and potassium levels enhances root development (where levels are low). Maintains turf colour and improves disease resistance.

**USE:** An ideal autumn/winter fertiliser for established turf.

**APPLY:** September onwards until the end of the growing season.

# Terra FSP

## HYDROSEEDING MULCH

Terra FSP is a high performance GREEN mulch for hydroseeding applications. It promotes accelerated growth through a combination of seed protection and improved hydration for nourishment. Manufactured from recycled wood fibre and straw, Terra FSP is safe to handle, environmentally sound with an unlimited shelf life.

Application Rates: 100-180g/m<sup>2</sup>

### RAPID GROWTH

Terra FSP holds 1200% its own weight in water. Its water retention capability ensures newly sprayed seed is provided with the with vital nourishment necessary for successful germination and establishment.

### SUPERIOR QUALITIES

An even grass cover is easier to achieve due to the ease of producing a uniform slurry and the even spread achievable from using Terra FSP.

### ENVIRONMENT

Terra FSP is non-toxic and non-irritant. 100% biodegradable it decomposes to return precious nutrients to the soil.

# GroWeb

## HYDROSEEDING MULCH

GroWeb Mulch is a blend of natural fibres. The purpose of mulch is to protect and nurture the seed. The fibres knit together when mixed with water, tackifier and fertiliser. Once sprayed onto the surface of the site they provide a protective and moisture retentive cover thus aiding the germination of the seed.

Application Rates: 100-180g/m<sup>2</sup>

### RAPID GROWTH

GroWeb's mix of fibre provides excellent water absorption - up to 400% its own weight. Its strong mat holds moisture and promotes rapid seed growth for quick, quality results.

### SUPERIOR QUALITIES

Unlike wood-fibre mulches, which have a low pH that is detrimental to seed germination, GroWeb has a virtually neutral pH - ideal for establishing vegetation.

### ENVIRONMENT

GroWeb is 100% recycled cotton fibre. It is biodegradable and absolutely non-toxic.

# GroWeb

## TACKIFIER

GroWeb Tackifier is a natural non-toxic powder made up of 99% natural colloids and 1% inhibitor. The purpose of GroWeb Tackifier is a gelling agent that when mixed with water, swells becoming highly viscous, binding the seed, fertiliser and mulch to the soil surface. GroWeb Tackifier helps protect the seed from wind erosion, water erosion and drought.

Application Rates: 2-4g/m<sup>2</sup>

### ADVANTAGES OF USING GROWEB TACKIFIER

- GroWeb Tackifier is a harmless powder which is easy to handle
- GroWeb Tackifier is highly viscose and will assist erosion control by stabilising the soil and holding the other materials in place
- GroWeb Tackifier is highly water absorbent and will retain water and re-wet
- GroWeb Tackifier lubricates both the mulch and the moving parts of the hydraseeding machine
- GroWeb Tackifier helps protect the seed from wind erosion, water erosion and drought

# GroWeb

## SOIL AND PLANT FERTILISER

Organic slow release fertiliser 8:7:7 and minerals, trace elements and natural growth stimulants. GroWeb Soil and Plant Conditioner is a concentrated liquid fertiliser. It is designed as a total replacement, one stop fertiliser.

Application Rates: 30-40L per/ha

### ADVANTAGES OF USING GROWEB FERTILISER

- A predictable and safe fertiliser
- Naturally occurring growth stimulants aid rapid germination
- Good micro-organism activity encourages development of healthy sward
- Steady Nitrogen release
- Increased root depth means greater drought resistance
- Organic activity releases locked up nutrients
- Both naturally occurring growth stimulants are proven to contribute to recovery from shock as in adverse climatic conditions

# Useful Data

## Weight

lbs	to kilograms	divide by	2.205
kilograms	to lbs	multiply by	2.205
tons	to tonnes	multiply by	1.016
tonnes	to tons	divide by	1.016
cwts	to kilograms	multiply by	50.794
kilograms	to cwts	divide by	50.794

## Area

acres	to hectares	divide by	2.471
hectares	to acres	multiply by	2.471
square yards	to square metres	multiply by	0.8361
square metres	to square yards	divide by	0.8361

## Pitch Dimensions

	Metres (l x w)	Area
Soccer	100 x 64	6400m <sup>2</sup>
Rugby	100 x 69	6900m <sup>2</sup>
Hockey	91.4 x 55	5027m <sup>2</sup>
Cricket Square	30 x 23	690m <sup>2</sup>
Lawn Tennis	23.8 x 11	262m <sup>2</sup>
Bowls	40 x 40	1600m <sup>2</sup>
Croquet	32 x 25.5	816m <sup>2</sup>
Golf Green		500m <sup>2</sup> /600m <sup>2</sup>
Golf Tee		250m <sup>2</sup> /500m <sup>2</sup>

## Sales Support

### HEAD OFFICE

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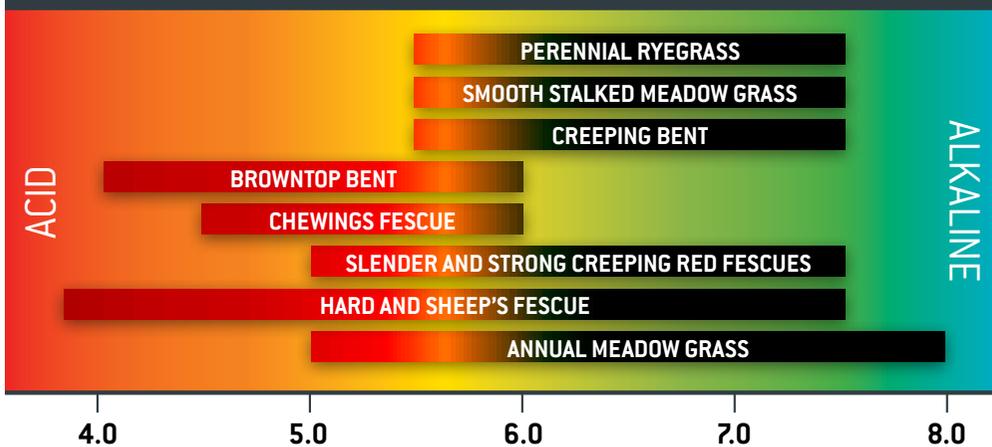
**Mandy Bell**

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## SOIL pH AND TURF GROWTH



Soil pH. Table shows most suitable pH for grass species

## Regional Technical Support

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### WEST



**Phil Seedhouse**

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# The **professional** choice

It is our pleasure to present the unique Masterline brand with superior grass varieties. Our focus is on fine-leaved, dense varieties with outstanding disease resistance, wear and drought tolerance.

All Masterline mixtures are based on the large portfolio from the DLF Group and only the very best varieties are selected for our mixtures.

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