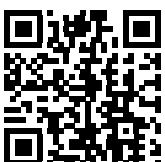


A Guide for into **SEEDING** Established Turf

Oversowing seed into existing turf requires some precise management to achieve the desired results. The newly sown seed requires a lot of assistance to ensure good germination and establishment. Selecting the correct seed and products to assist with establishment are vital decisions in achieving a worthwhile return for the investment.

WHY OVERSOW?

- To protect warm season grasses during winter use.
- To provide colour to dormant grass areas.
- To thicken the turf sward in cool season grasses.
- To gain a better turf cover in wear or depleted areas.
- To introduce new turf types or increase the percentage of a particular type.



For more information, contact your
Globe Growing Solutions Client Manager
by emailing TurfSales@globeaus.com.au
or visit www.globegrowingsolutions.com.au

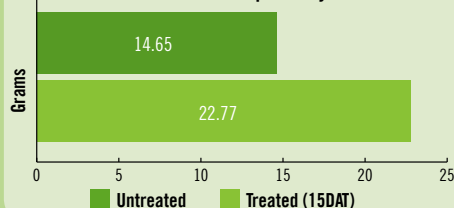
globe
GROWING SOLUTIONS

Research & Supportive Trials

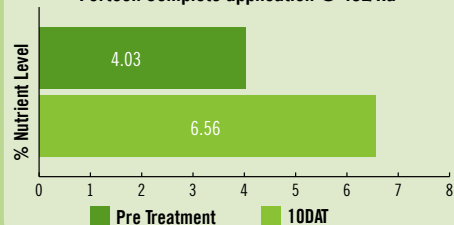
Conducted on oversown turf on a sporting field in Western Sydney show absolute benefits of applying bio stimulants and true foliar fertilisers to develop more vigorous root development and healthier shoots.

The data below shows how using Globe Growing Solution's bio stimulants and foliar fertilisers improves the performance of establishing turfgrass seedlings.

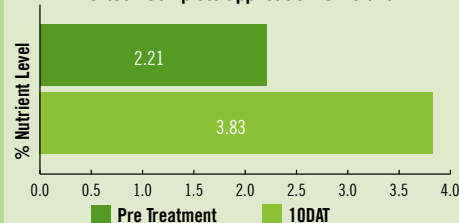
Dried root mass of sample following application of Kelpro, Auxinone & Noculate Liquid @ 10L/Ha respectively



Nitrogen levels in leaf tissue following Fertech Complete application @ 40L/Ha



Potassium levels in leaf tissue following Fertech Complete application @ 40L/Ha



OVERSOWING

- Oversowing into an established turf cover is a very competitive environment for the newly sown seedlings to establish.
- The newly sown seed requires a lot of assistance to ensure good germination and establishment.
- An excessive thatch layer on the turf surface can prevent the seed from making contact with the soil, causing uneven germination. Prior to sowing scarifying may need to be considered to ensure excellent seed-soil contact.
- A programme utilising the correct nutritional requirements will nurture the establishing seedlings while providing colour and coverage during the required demand period. A soil analysis is recommended to determine the most suitable product.
- Sufficient water is critical for best results. An increase in frequency of application during germination will be required and the application of a soil wetting agent product is also a wise move.
- Selecting a quality seed which meets your requirements is a most important decision. Your Globe Representative can describe the characteristics of each variety.
- Distribution of the seed through suitable application equipment ensures even coverage and sufficient seed to soil contact. Equipment Solutions have a range of seeders suitable to every need.

OVERSOWING PROGRAMME

Prior to Seeding

1. Obtain a soil analysis report to determine a nutritional programme.
2. Scarify the surface to reduce thatch if required.
3. Apply a soil wetting agent product such as Cascade Gold on short mown areas and Cascade Bronze on higher cut turf.
4. Apply a Plant Growth Regulator 2 to 7 days prior to sowing.
5. Apply a turf starter type fertiliser or as recommended by your soil analysis.

Seeding and Establishment

1. Distribute seed at the recommended rate by way of a precision seeder.
2. Minimise traffic following over-seeding where possible.
3. Light frequent irrigation to maintain seedbed moisture.
4. Provide low levels of readily available phosphorous as a spray after seed emergence to encourage good rooting and canopy closure.



TURF SEED SELECTION

Product	Description	Rate/100m ²
SR4660ST	Specifically SR 4660ST Perennial Ryegrass (SRX-4MSH) (Lolium perenne) is an attractive, leafy, endophyte-enhanced ryegrass with extremely high levels of salt and drought tolerance. The plants used to develop SR 4660ST were irrigated with salt water during the heat of summer to select the plants that survived salinity and heat.	3-5 kg
Triple Elite	This blend consists of three DLF seed varieties that exhibit dark colour, winter activity and quick establishment. Triple Elite combines varieties to provide an all-round solution for the rigors of winter sports activity.	3-5 kg
Transtar	Transtar is a turf annual ryegrass with two main characteristics. Firstly its ability to germinate fast and secondly its ability to transition out when put under heat and drought pressure. Transtar is ideal for over sowing warm season grass and will provide a mid-green colour and density.	4-5 kg



Oversowing warm season grasses with ryegrass varieties in preparation for winter months will provide a superior winter surface and vastly increase the wear tolerance of the sporting

surface. It will also improve the visual appearance of a turf surface, which is often the major factor for judging the condition of the facility and its Turf Manager.



Maintenance Nutrition of Over Sown Sports Fields

It is vital that nutrient levels are maintained following successful germination of your rye grass. Globe Growing Solutions has an excellent range of granular and liquid nutritional products to help achieve this.

We recommend the use of products from **The Andersons** and **2SPEC** Range as a granular option to provide baseline nutrition. Supplemental nutrition can be applied by using **Fertech** liquid products.

PRODUCT SELECTION

	Product	Analysis	Rate	Timing
Growth Regulator	Primo Maxx	120g/L Trinexapac-ethyl	1-4 L/Ha	Apply 5 days prior to seeding.
Granular Fertilisers	2SPEC Establish	15-10-10 40% CRN	300 kg/Ha	Apply at seeding.
	2SPEC Elevate	24-1-10 + 2% Fe 63% CRN	240 kg/Ha	Apply as required for baseline nutrition.
	The Andersons PSX Mini 150	23-1-8 + 5% Fe 65% CRN	250 kg/Ha	Apply as required for baseline nutrition.
Liquid Fertilisers for Establishment	Fertech Complete	18-0-12 + 0.4% Fe 50% CRN	40 L/Ha	Apply in a tank mix 2 weeks after germination. Maintenance applications can be made as required.
	Fertech Tracer	3.85% B, 0.06% Cu, 5.69% Zn, 0.6 Mg, 1.08% Mn	10 L/Ha	
	P-K Plus	3-3-15 + 14% Phosphite	20 L/Ha	
Liquid Fertiliser for Maintenance	Fertech Special FeX	15-0-0 + 6% Fe & 2% Mn	40 L/Ha	Apply prior to special events for colour.
Bio Stimulants	Fertech Kelpro	350g/L Kelp Extract	10 L/Ha	Apply in a tank mix 2-3 weeks after germination and apply at 4 week intervals.
	Auxinone	0.075g/L IAA & NAA + 2.25g/L Vitamin B1	10 L/Ha	
	Noculate Liquid	24 Strains of beneficial soil microorganisms, humic acid, kelp, essential amino acids, vitamins, biotin, folic acid and natural sugars	10 L/Ha	
Fungicides	Subdue Maxx	240g/L Metalaxyl-M	1.7-3.5 L/Ha	Apply at seeding
	Signature	800g/L Fosetyl-aluminium	12.5 kg/Ha	Apply 5-7 days following germination.
	Daconil Weatherstik	720g/L Chlorothalonil	13-24 L/Ha	Apply 3-4 weeks following germination.
	Heritage Maxx	62g/L Azoxystrobin + 104g/L Propiconazole	9 L/Ha	
Insecticide	Meridian	250g/kg Thiamethoxam	0.8-1.2 kg/Ha	Apply at seeding.

Oversowing & Seeding

BLEC The MultiSeeder

What makes it the best option:

- ◆ Twin floating multi spike cast ring roller.
- ◆ Produces 1890 holes per square metre.
- ◆ Accurate seed distribution for all seed types, with mixing bar.
- ◆ Floating twin spike rollers are able to follow contours.
- ◆ Less surface disruption.
- ◆ Accurate seed distribution.
- ◆ High capacity seed hopper.
- ◆ Drag brush with height adjustment.
- ◆ Standard rear drag brush.
- ◆ Standard weight frame.
- ◆ Roller cleaning brushes.
- ◆ Land driven seed metering wheel.



With this versatile machine you can change the aeration capabilities into a one pass Aeration and Seeding operation.

- ◆ Single pass seedbed preparation (in most conditions) while seeding.
- ◆ Ability to overseed and primary seed with the same machine.
- ◆ Two-in-one patented feed wheels for metering both large and small seed varieties.
- ◆ This allows accurate calibration with large and small seed sizes without adding a separate small seed box.
- ◆ All units come with a calibration catch tray to collect the seed for accurate calibration. The catch tray is secured on the front of the seed box when not in use.
- ◆ Accurate exposure of seed flutes are visually measured by raising the easy access wind deflector. Micro-seed calibration adjustments are made using the adjusting screw to align flute exposure.
- ◆ Feed wheels are spaced approximately 4" apart for uniform seed placement using 15 outlets for the UA-60 and 20 outlets for the UA-80.

EQUIPMENT SOLUTIONS

The Ultimate in Seed Injection



The BLEC Multi-seeder is an ideal overseeder for working on both fine turf and amenity type areas. The floating twin spike rollers follow the contours, saturating the surface with small 'flower pot' holes ready to accept the seeds, which are spread accurately via the stainless steel metering sections adjustable from 0-50 grams per square metre. A drag brush sweeps the remaining seeds into the holes, and a rear smooth roller firms up the surface.

Universal Shaft System: Aera-Vator



Our products deliver results and lower your equipment cost by increasing versatility with interchangeable shafts and seeder options. The Aera-Vator's vibrating tines deliver results without the extra work of traditional aerification and the fractured soil creates the ideal seedbed, making this a multifunctional machine that can be used in many applications. Vibrating tines loosen the soil all around and underneath each tine, fracturing the soil with 9 holes per square foot. Better subsurface aeration due to total fracturing of the soil – no holes are "punched" into the surface.

For further information or assistance call your local Globe Client Manager or Email: TurfSales@globeaus.com.au

Head Office: 8 Hexham Place, Wetherill Park NSW

■ www.globegrowingsolutions.com.au

globe
GROWING SOLUTIONS