

Soil Amendments

Unique granular products containing Calcium

Why use more when you can use less? Solu-Cal® is four times more effective than lime in adjusting soil pH.

- Solu-Cal® will raise soil pH in as little as eight weeks unlike pelletised lime which can take up to eighteen months
- 75% less labour handling, transport costs and storage space
- 80% less dust than traditional liming products
- Great for sandy turf surfaces either as a topical fertiliser or as an amendment at renovation or construction

Suitable for



Benefits

- Helps the plant to solubilise and actually extract nutrients from the soil while increasing translocation of nutrients in the plant.
- Contains PHCA which is extremely effective when impregnated onto a Calcium source. When applied, it works immediately aiding the plant in solubilising the applied Calcium and the accumulated Calcium in the soil from previous applications.
- PHCA shows consistent performance in increasing root development, increasing plant health, vigour and nutrient translocation.

General Information

Pure, ultra-fine ground pelletised calcium carbonate is impregnated with 2% PHCA, a proprietary organic acid. PHCA enhances the plant's ability to convert both the applied and stored Calcium into an immediately available form for plant uptake and soil pH adjustment.

Application Rates

Product	SGN	Analysis	Application rate per hectare
Solu-Cal® (Lime)	70 and 210	36.5% Ca, 0.4% Mg	250-500 kg
Solu-Cal® S (Gypsum)	70 and 210	27% Ca, 22% S	250-500 kg
Solu-Cal® Mag (Dolomite)	210	21% Ca, 10% Mg	250-500 kg
K-Cal Plus	70 and 210	8% Ca, 18% S, 4% Mg	250-500 kg
Solu-Cal® Sulfur Maxx™	190	46% S, 14% Ca, 7% BenCly	340-650 kg

Pack Size: 22.68 kg

Rooster Booster 4-2.5-2

- Pelletised organic chicken manure
- Ongoing and steady nutrient release
- Organic fertiliser
- Excellent renovation amendment
- Pelletised for easy spreading
- Contains Calcium, Magnesium, Sulphur, Copper and Boron
- Great for sandy turf surfaces either as a topical fertiliser or as an amendment at renovation or construction

Suitable for



Benefits

- Organic, therefore suits those who do not want to use synthetic fertilisers.
- Requires conversion by soil microbes to a form of readily available nutrients to the plant – therefore provides some slow release characteristics.
- Promotes strong root growth and corrects poor CEC levels.



General Information

Organic fertiliser (chicken manure) for healthy robust turf.

Application Rates

Apply 25-50 g/m² (250-500 kg/ha)

Caution: Water well after application to avoid burn.

Pack Size: 25 kg

Bioboost 6-2-0

Plus trace elements

- Organic slow release
- 2.4 mm non-burning granule
- Heat dried bio-solid from surplus wastewater micro-organisms (not manufactured from sludge)
- New Zealand's equivalent to US leading organic fertiliser Milorganite

Suitable for



Benefits

- Organic, non-burning, slow release and weed-free.
- Typically 12% of Nitrogen is water soluble. The remainder requires conversion by microbes in the soil, therefore very slow release (6-9 months and little leaching).
- 70% organic matter – therefore excellent soil conditioning properties.
- Manufactured in accordance with NZ Health Department requirements.
- Very cost effective fertiliser.



General Information

Bioboost is a heat dried bio-solid manufactured from the surplus micro-organisms used in aeration ponds of municipal waste water treatment. (Note: it is not manufactured from the sludge). These “clean” micro-organisms are separated from the “clean” effluent water and rotationally dried in a high temperature thermal drying process which sterilises, pelletises and dries Bioboost to 90% solids.

Application Rates

Surface application: spring 100-150 g/m² (1-1.5 T/ha), summer 50-100 g/m² (500-1000 kg/ha)

Renovation: 150-200 g/m² (1.5-2 T/ha).

Tees and greens reconstruction: 200-400g/m² (2-4 T/ha) incorporated to a depth of 75-100 mm.

Caution: Not to be applied to grazing land. Dried to 90% solids but improper (damp) storage may release objectionable/foul odours. Note precautions listed on the bags.

Pack Size: 25 kg, 500 kg, 800 kg and bulk.

Regen-R-8

Soil amendment fertiliser for turf renovation (NPK 6-3-3.5)

- 41% Solu-Cal® S (gypsum)
- 31% slow release starter fertiliser (Andersons 19-11-4 (19-26-5))
- 12% Seaplant meal from Sand-Aid®
- 10% granular soil wetter (Restore)
- 6% Potassium (Andersons Nutri DG 0-0-25)
- Up to 10 weeks performance
- SGN 125 to 150 (1.25 to 1.5 mm particle size)

Suitable for



Benefits

- Mini prill formulation for easy spreading onto renovation areas and fine turf. Small enough to fall into grooves and core holes.
- Stimulates rapid growth recovery after renovations.
- Increases CEC levels in sand profiles.
- Includes Solu-Cal® S (gypsum) treated with PHCA acid for immediate plant availability. Because of the inclusion of PHCA acid, Solu-Cal® S (gypsum) is four times the power of standard gypsum.
- Sand-Aid®, an internationally recognised granular organic Seaplant meal, encourages fantastic recovery and root growth.

General Information

A pre-mixed granular renovation product which contains five of the most commonly used products in turf renovation. Customers' results speak for themselves with this product, especially recovery from renovation.

Application Rates

Apply 2-4 kg/100m² (200-400 kg/ha)

Pack Size: 25 kg bags.

Exclusive to PGG Wrightson Turf.

Sand-Aid®

Granular Seaplant Meal

SAND-AID
Granular Sea Plant Meal

- Natural organic amendment to be soil incorporated during renovation and aerifying
- Extraordinary source of nutrients – contains every major, secondary and micro nutrient known to play a role in turfgrass management
- Improves quality, appearance, playing characteristic and ability to withstand stress and disease

Suitable for



Benefits

- Solves many of the problems associated with high sand content turf areas.
- Five times more cation exchange sites (CEC) than peat.
- Fastest decomposing soil amendment currently available.
- Stimulates microbial activity and won't "layer".
- Increases moisture and nutrient retention.
- Micronutrients and trace elements are all calculated.
- Environmentally safe, non-toxic, non-contaminating and biodegradable.

General Information

Sand-Aid® is an extraordinary source of nutrients, secondary micronutrients and trace elements. Sand-Aid® improves moisture and nutrient retention, is cost effective and often assists in reducing disease pressure. It has an extraordinary level of CEC and is the highest of any natural organic product. Sand-Aid® contains 52% simple plant carbohydrates which can be used by the plant in stress periods so it makes a dramatic difference in overall turf grass stress tolerance. Greatly increased root growth in sand mediums experienced with this product.

Application Rates

For construction of sand (USGA) specification greens: 200-250 g/m² (2-2.5 tonnes/ha).

For renovation/aerifying: 30-50 g/m² (300-500 kg/ha) whilst aerification holes are open and work material in thoroughly.

For topdressing: 25 g/m² (250 kg/ha), read instruction on label when topdressing.

Note: In addition to Sand-Aid® on its own, PGG Wrightson Turf also specialises in making up full renovation mixes with or without Sand-Aid® as a base, but also incorporating other products such as Agromate (granular humic acid), slow release starter fertiliser, granular soil wetter, Potassium etc. Please see Regen-R-8 on the previous page.

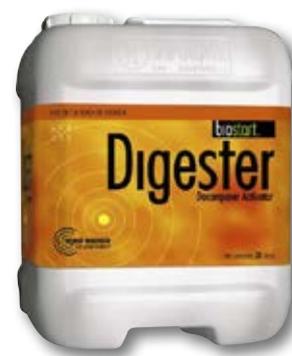
Pack Size: 22.68 kg bags (45 bags per tonne)

Digester

A product to activate primary soil decomposers

- This product activates primary de-composers – this product is not a living bacteria
- Improves organic matter recycling
- Remedies compaction
- Repairs soil aggregate

The complete composting of organic matter over the winter months is critical for maintaining a healthy soil structure and strong spring growth. Digester uses Biostart's signal molecule technology to activate the indigenous primary decomposers. These beneficial fungi and bacteria are collectively responsible for converting dead root and grass clippings into healthy humus. Digester aids in maintaining biological activity over the cooler winter months. Digester can be used to remedy compaction and repair soil aggregate.



Application Rates

3 L/ha.

(For applications over the growing season use Mycorrcin). Some over-lapping for a few months in autumn/spring using both products will give benefits of each product and in such a case the use rate would be 3 L/ha of each mixed with water.

Pack Size: 20 litres

Mycorrcin

A product to activate *Mycorrhizal* fungi

- This product stimulates dormant *Mycorrhizal* bacteria in the soil using signal molecules – this product is not living *Mycorrhizal* bacteria so does not need to be refrigerated
- In doing so it creates fungi "channels" to the root hairs which assists in directing nutrients and moisture to the roots
- The plant then grows microscopic root hairs where the "channels" have been
- This greatly assists in root growth and development
- Plant is much more able to handle stress, and is therefore healthier

Mycorrcin is a bacteria activator (rather than living *Mycorrhizal* bacteria) and is best applied during the true growing season, September to April. It remedies compaction, and assists in the soil's water holding capacity, as well as enhancing root development thereby increasing the up-take of both moisture and nutrients into the plant. It can be tank mixed with most common fungicides, pesticides and foliar fertilisers (*Mycorrhizal* is Latin for root fungi).



Application Rates

5 L/ha.

(For applications over winter use Digester). Some over-lapping for a few months in autumn/spring using both products will give benefits of each product and in such a case the use rate would be 3 L/ha of each mixed with water.

Pack Size: 20 litres

Remediator™

Remediator™

90% Calcium chloride solution

- Contains high levels of soluble Calcium which displaces Sodium (salt)
- Improves soil drainage
- Reduces crusting and improves infiltration of water and nutrients
- De-compacts clay and soggy soils
- Excellent in areas where reclaimed water is used for irrigation and for dispersing salt
- Encourages deeper root growth
- Assists with excessive thatch build-up

Remediator™ assists in displacing Sodium creating more stable soil particles and pore spaces in the soil. It releases salt which lowers electrical conductivity. Remediator™ also reacts with organic matter to prevent crusting on soils allowing water to infiltrate the soil. 10 litres of Remediator™ is "Calcium equivalent" to 958 kg of dry gypsum.



Application Rates

10 L/ha in at least 800 L of water per hectare. Use bi-annually or as required. Excellent when used at renovation time. Irrigate after application to move Remediator™ into the soil.

Caution: Best used on its own and not tank mixed with other products.

Pack Size: 10 litres