

# The Greens

## TerraLink's Professional Turf Advisor

**Exclusive:**  
Barenbrug Seed  
available only at  
TerraLink  
(See Inside)

Fall 2010

TerraLink Horticulture Inc.

## About Us

### Fertilizers:

TerraLink Horticulture, located in Abbotsford B.C., is a leading supplier of fertilizer, pesticide and seed products. We manufacture and distribute throughout Western Canada supplying nutrient and disease control inputs specifically designed for Golf Course, Sportsfield and Landscape managers.

Having a blending production facility enables us to manufacture fertilizer formulations that are specific to our customers' needs. We source a wide variety of ingredients from around the world enabling us to design fertilizers that meet the unique requirements of different soil and climate conditions.

The foundation of our fertilizer products are our controlled release nitrogen sources. We believe that different conditions require specific ingredients. As climate, soil, water and management practices vary so does the need to supply a specific type of controlled release product. At TerraLink we utilize Stabilized Nitrogen, Polymer Coated Nitrogen, Methylene Ureas and Organic Nitrogen. These can be blended together or apart along with Phosphate, Potassium, Magnesium, Calcium, Sulphur and Minor Nutrients to make a wide variety of turf grass fertilizers.

Our branded fertilizer, Richgrow, is available in a 'Regular Size' suitable for fairways, roughs, sportsfields and landscapes. We also carry miniprill / microprill fertilizers for use on golf course greens and tees. In addition to blended fertilizers we also carry 'homogenous' products for greens, tees and fairways.

### Seed:

In 1996, Richardson Seed, located in Burnaby B.C., was added to the TerraLink team. Known for supplying quality seed to golf courses, municipalities and sod producers, 'Richlawn' seed products complement our 'Richgrow' granular fertilizers. We offer a complete array of ryegrass, bluegrass, bentgrass and fescue species. Different varieties are available to meet the specific requirements of varying soil, climate and management constraints. Our varieties are available as single species or in complex mixes. We pride ourselves on supplying high quality clean seed with good germination. TerraLink's seed buyers are constantly locating new varieties in order to supply the most up-to-date seed on the market. New this year, our RPR-Regenerating Perennial Ryegrasses is further discussed inside.

### Fungicides:

In addition to quality seed and fertilizer products TerraLink supplies turf fungicides from some of North America's leading manufacturers. Over the past 10 years disease control has been made easier thanks to new registrations from Syngenta, Bayer, BASF and Engage Agro. TerraLink is pleased to offer a complete line up of these products. Both preventative and contact fungicides from a variety of fungicide classes are available from TerraLink. See inside for some of our feature fungicides designed to control tough winter diseases.

# EarthLink

Along with supplying conventional products to our clients, TerraLink is now expanding in a green direction with our new EarthLink line. EarthLink supports the trend to find products that feature a smaller carbon footprint with a high probability of success to the end user.

This new line demonstrates our commitment and preference toward recommending organic, natural, organic based and biological products whenever possible. As the blender and manufacturer, our flexibility allows us to introduce new products based on customer requests and environmental responsibility.

Our main office and fertilizer blending plant is located in Abbotsford, BC with a second outlet, Roddick Fertilizers, also owned and operated by TerraLink, in Delta, BC. Whatever your growing needs, TerraLink has an expert perfectly suited for them.



**TerraLink Horticulture Inc.**  
464 Riverside Road, Abbotsford BC  
Tel: 604-864-9044  
Hours: Mon-Fri 8 AM to 5 PM  
Open Saturdays starting March 6th

*Rooted in your community.*

# TerraLink

NEW from Barenbrug:

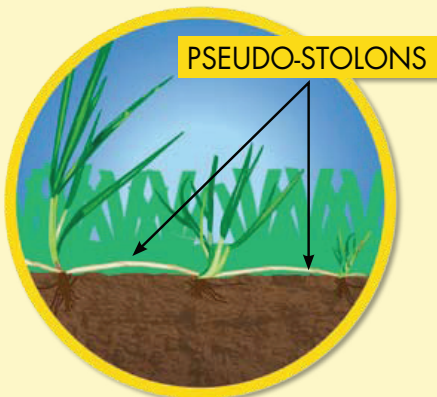
# Regenerating Perennial Ryegrass for Turf



## Improve your property with RPR

RPR-Baralpha is the latest introduction from the Barenbrug Seed Company. Barenbrug's exhaustive research and development has produced a remarkable regenerating perennial ryegrass product.

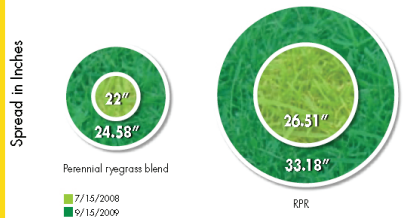
RPR-Baralpha has 'pseudo-stolons' that allow for self-thickening turf in all directions. These pseudo-stolons are sometimes called runners and emerge from buds at the base of each plant. When there is space where a divot is removed or turf has been damaged, the pseudo-stolons grow to fill in this empty space. Roots develop along the stolon and a new clump of grass grows.



Researchers at the Barenbrug research site noticed that RPR was thriving under tough conditions and was spreading even into high stress areas such as wheels ruts at the ends

of rows where the tractor made turns while towing the wear simulator equipment. Upon further testing the researcher studied the lateral growth of RPR under frequent mowing. When compared to other typical perennial ryegrass varieties, RPR expanded with an additional 25% increase in growth.

### CIRCUMFERENCE OF SPACE PLANTS



RPR spread measured in cm compared to an average of three popular perennial ryegrasses.

You can be assured that Barenbrug extensively tests all its varieties and RPR is no exception. It has exceeded the company's most stringent quality requirement for wear tolerance, drought tolerance and turf quality. It is vastly superior to any other perennial ryegrass on wear tolerance and the quality of the turf remains high even under heavy wear.

RPR can be purchased and used by itself or in various mixtures and blends. Contact TerraLink for more information. It is an easy care variety

that needs about the same amount of fertilizer as regular ryegrass. It is particularly drought hardy and disease resistant due to being endophyte enhanced. All of these features make for an ideal choice for your sports field, golf course, lawn or landscape.

### RPR Features:

- Great color
- Unrivaled wear tolerance
- Increased disease and drought tolerance
- High turf quality

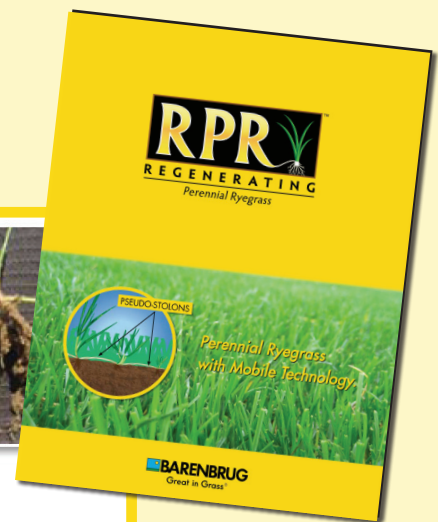
RPR will make your customers turf look good, perform better and make you look good too!

### TerraLink's RICHARDSON SEED line of turf seed product includes RPR in 3 Featured Products:

- Premium 4-Way Overseeding Mix.
- Premium Sportsturf Mix.
- Premium Sandfield Sportsturf Mix.



The pictures above show pseudo-stolons rooting down in RPR.



**BARENBRUG**  
Great in Grass®

## Forward Thinking

## Taking Care of Business and the Environment

**UMAXX: Efficient, Effective. Performance.**

In a premium nitrogen category all its own, UMAXX is a stabilized nitrogen fertilizer formulated specifically for the turf and ornamental markets.

Professionals turn to UMAXX because it improves nitrogen efficiency, increases plant utilization and minimizes environmental loss while providing consistent nitrogen feeding for up to 12-16 weeks. This is perfect where frequent applications are not desirable.

UMAXX usage results in fewer applications while still maintaining maximum turf color and vigour. The exclusive formulation includes a unique inhibitor that blocks urease, which helps to minimize nitrogen loss to the atmosphere. This allows time for rainfall and irrigation to effectively transport nitrogen to the root zone. Once in the soil another inhibitor keeps nitrogen in a plant available form ensuring no other losses occur due to denitrification or leaching. According to independent research, at least 30% of nitrogen from urea can be lost into the atmosphere through volatilization, often within days of application. UMAXX prevents such losses.

**UMAXX Provides Maximum Nitrogen Efficiency:**

- Performs consistently regardless of soil temperature or weather. UMAXX melts into the soil profile during heavy rain, instead of floating away.
- Performs as a granular nitrogen component in blends, or as a soluble nitrogen source in typical tank mixes.
- Delivers more usable nitrogen than other sources at a significantly lower cost.
- Produces long-lasting emerald green color for up to 16 weeks without causing excess growth or burn.
- Melts into the soil below mowing height to eliminate nitrogen loss due to mower pick-up.
- Protects the environment from leaching, denitrification and volatilization.

**UFLEXX: Improved Nitrogen Efficiency**

In a premium nitrogen class, UFLEXX is a stabilized nitrogen fertilizer formulated for the professional lawn care, retail, landscape, golf and specialty markets.

Turf professionals looking to improve their fertility programs turn to UFLEXX because it delivers the most reliable, medium-duration source of nitrogen for maximum application flexibility. Providing consistent nitrogen feeding for up to 6-8 weeks, UFLEXX is specifically intended for turf uses where repeat application is desirable.

UFLEXX is formulated with lower concentrations of the same two proprietary inhibitors as UMAXX. These inhibitors minimize urea nitrogen loss through volatilization, leaching and denitrification.

UFLEXX ensures more nitrogen gets to the plant where it is intended to go. It improves nitrogen performance by reducing nitrogen loss to the environment and holding nitrogen in the soil in a plant usable form to provide consistent feeding that's not dependent on soil temperature or moisture. As a result, UFLEXX provides consistent nitrogen feeding with less burn potential, in addition to steady turf growth and exceptional color.

**UFLEXX Provides Nitrogen Efficiency:**

- Performs consistently regardless of soil temperature or weather. UFLEXX can be applied any time of the year.
- Performs as a granular nitrogen component in blends, or as a soluble nitrogen source in typical tank mixes.
- Produces consistent emerald green color for up to 8 weeks without causing excess growth or burn.
- Protects the environment from leaching, denitrification and volatilization.
- Ideal for lawn care operators or in situations where more frequent application is needed.

**HYDREXX: Customize & Stabilize Your Nitrogen**

HYDREXX is a dry, soluble fertilizer additive (not a source of nitrogen itself) that allows applicators to stabilize their own liquid urea-based nitrogen source at the rate they choose for short- to medium-duration feeding.

Turf professionals looking to take control of their fertility programs turn to HYDREXX as a cost-efficient way to enhance the performance of any liquid urea-based nitrogen. When mixed with urea and urea-based fertilizers, HYDREXX maximizes nitrogen efficiency, reduces nitrogen losses to the environment and allows for flexible control of nitrogen.

HYDREXX stabilizes nitrogen by combining the same two proprietary inhibitors as UMAXX and UFLEXX that minimize urea nitrogen loss through volatilization, leaching and denitrification. In addition, HYDREXX enables you to adjust rates based on specific environmental conditions and personal preferences: lower rates for heavier soils and more frequent applications, or higher rates for increased performance and fewer applications.

When you mix environmentally sound HYDREXX with a liquid urea-based nitrogen source, you can expect a quick response, superb color and long-lasting performance.

**HYDREXX Provides Controlled Nitrogen Performance:**

- Performs consistently regardless of soil temperature or weather. HYDREXX can be used any time of year that soluble applications are applied.
- Compatible with most fungicides, herbicides, insecticides and plant growth regulators.
- Stabilizes your urea fertilizer so it is held in the most efficient, ammonium form.
- Produces quick response and a consistent emerald green color.
- Protects the environment from leaching, denitrification and volatilization.
- Packaged in a variety of sizes to accommodate your unique turf grass application program.
- HYDREXX plus Urea is the most cost-effective way for applicators to offer stabilized nitrogen.
- Reduces flush growth.

## Protect Your Investment

## Time to Plan Your Fall Fungicide Program

The most damaging effects of turf grass diseases may often be avoided by good cultural practices such as sound turf establishment, correct fertilization, suitable irrigation, timely thatch removal, adequate soil and air drainage, and snowdrift control. The selection of the most suitable turf grass cultivar or mixture of cultivars is of major importance in minimizing the risk of infection and reducing disease damage.

Fungicides are often needed to control both summer and winter diseases. In selecting a fungicide, the fungal pathogen(s) must be identified. It is important to know whether more than one fungus is involved, since some fungicides have a narrow and some a wide range of effectiveness. Often, disease is caused by mixtures (complexes) of pathogens, adverse climatic conditions, and physical and chemical characteristics of the soil. Correct diagnosis is therefore very important.



Extreme case of Gray Snow Mold (*Thyphula* spp)

The efficacy of many fungicides against specific turf grass diseases is known from experimental work in Canada and elsewhere. Although some have had extensive practical usage in other countries, only a limited number of chemicals are registered for certain diseases in Canada. With some materials, registration has been denied or withdrawn because of environmental safety considerations.

Fungicides act most effectively if they are used to prevent disease and should be applied, if possible, as preventatives before disease appears. Curing a disease already present is more difficult, particularly if plant growth is slowed by unfavorable conditions. Some fun-

gicides act systemically, that is, they are taken up by the plant and act upon the fungus from within; nonsystemic fungicides mainly affect the fungus externally. For most leaf diseases the recommended dosage of an appropriate fungicide should be applied in 10 to 24 litres of water per 100 square metres. Where a shoot base or root drench is required, double the volume. With some fungicides the margin of safety is small, which emphasizes the need to adhere to the dosage recommended by the manufacturer. Generally, sprays are more effective than dry powder or granular applications.

In Canada, plant protection materials are registered for commercial (C) or domestic (D) use by crop, and disease or pest. Fewer registered turf fungicides are available in Canada than in some other countries. The professional user has a wider range of turf fungicides available than does the domestic lawn owner. The usual precautions for storage and use of chemicals should be taken with fungicides. Follow the manufacturer's directions on the label.

### Some Recommended Fungicides

#### INSTRATA™



Instrata™ fungicide from Syngenta Professional Products provides golf-course superintendents with snow-mould control that is second to none. Instrata™ combines the active ingredients chlorothalonil, fludioxonil, and propiconazole in a proprietary formulation created by Syngenta. The combination of active ingredients, and their multiple modes of action, enables Instrata™ to control all of the numerous pathogens that cause snow mould throughout the often extended period of winter snow-cover. In addition, Instrata™ controls a broad spectrum of additional turf diseases including: Anthracnose, Dollar Spot, Brown Patch and Summer Patch.

#### Product Highlights:

- Excellent pink and grey snow-mould control
- Broad-spectrum fungicide with both systemic & curative modes of action
- Control of additional turf diseases, including anthracnose, dollar spot, brown patch, and summer patch
- Low potential for leaching as it is adsorbed by soil particles.
- Is persistent in soil and is expected to carry over to the following growing season.

#### SENATOR® WSB

## SENATOR WSB

Senator® 70WP WSB is a quick dissolving wettable powder that offers a cost effective way to control a broad spectrum of diseases that affect golf course greens, tees, fairways and other turf areas. Senator® is safe on all commonly grown turf grass species in Canada. The active ingredient, thiophanate methyl has been a trusted preventative and curative disease control tool for the past 20 years.

#### Product Highlights:

- Only Fungicide of its type on the market which makes it an excellent choice for rotation with the newer classes of fungicides.
- A great choice for controlling dollar spot with no history of resistance.
- A systemic that is absorbed by roots, shoots and crowns so it protects from the inside out.
- Control of additional turf diseases including: Dollar Spot, Brown Patch, Powdery Mildew and Pink Snow Mould.

#### TERRACLOR®

The NEW Terraclor® Flowable Fungicide has



made protecting your fairways for winter a whole lot easier. Now with a reduced odor and foam free formulation, this allows for a quicker, cleaner application. This means no more dust, slurries or clogged nozzles. Quintozene, the active ingredient, has proven itself over the past 30 years to be an effective snow mould control product. A reliable preventative fungicide for golf courses, turf farms and lawns.

#### Product Highlights:

- A contact fungicide that protects turf by controlling the soil-borne diseases at the soil's surface.
- A cost effective control of both Pink and Gray snow mould on fairways.
- Gentle on turf containing Rye grass, Fescue, Bluegrass, Bent and / or similar grasses.
- Can be used on newly seeded or areas of established turf.
- Control of additional turf diseases including: Gray and Pink Snow Mould, Brown Patch