

# Golf Course & Landscape Fertilizers

## Lebanon...Improving the Way Professionals Care For Turf

LebanonTurf is the professional division of Lebanon Seaboard Corporation. With over 60 years of experience, Lebanon is dedicated to supporting its customers through an extensive network of independent dealers and distributors. LebanonTurf is committed to environmental stewardship and has a product line or technology to fit all aspects of the turfgrass industries – Golf Course Superintendents, Property Managers, or Professional Landscapers and Tree care Specialists.



LebanonTurf continues to bring cutting edge technology and products to the market. From the Country Club MD water-dispersible fertilizer line for greens, tees, and other closely mowed turf areas to the long lasting and highly efficient and predictable release of MESA® Ammonium Sulphate/Methylene Urea Nitrogen and EXPO® Nitrogen/Sulphate of Potash, LebanonTurf has the product line to meet your agronomic and budgetary needs.



**MESA** is a unique 30-0-0 nitrogen source that combines Ammonium Sulphate with Methylene Urea in a single, homogeneous particle. The result is an extremely efficient and controlled nitrogen source that produces consistent, dark green colour without surge growth. Unlike coated nitrogen technologies, **MESA** does not lose its slow-release properties when cracked, chipped, crushed or broken. **MESA** technology is found in Lebanon's Country Club and ProScape brands.



**EXPO** is LebanonTurf's patented, single-particle, extended release Potassium Sulphate technology. **EXPO** is designed to deliver potassium to the turf in a reliable and predictable rate over a longer period of time, well beyond that of the standard Potassium Sulphate found in most fertilizers. Additionally, **EXPO** delivers controlled release nitrogen (derived from Methylene Urea). Each homogeneous particle has an analysis of 20-0-25. **EXPO** is found in Lebanon's Country Club, ProScape, and Woodace brands.



## The Next Stage in the Evolution of Golf Course Fertilizers

Country Club MD is an innovative fertilizer from Lebanon Turf developed to provide superior turf quality and golf course playability. It is uniquely formulated to consistently deliver the optimum nutrients and stress-buffering bio-stimulants that your playing surfaces need to stay healthy all season long. It utilizes a unique, highly dispersing granule technology that includes the stress-buffering bio-stimulants sea plant kelp meal and humic acid. Country Club MD features Meth-Ex® slow release, methylene urea nitrogen combined into an SGN 80 particle size that is ideal for putting greens.

Lebanon Country Club MD is available in a range of formulas and release rates to help you build the right fertilizer program based on your specific agronomic needs. Some of the most widely used formulas include:



- 16-0-8 Country Club MD – 80 SGN**
- Early-season formula
  - 91% Ammonium Sulphate N & 100% Sulphate of Potash + Fe, Mg, Mn, S, Kelp & Humic Acid
  - 40-Pound Bag



- 18-0-18 Country Club MD – 80 SGN**
- Spring / Summer formula
  - 56% Meth-Ex Nitrogen & 100% Sulphate of Potash + Fe, Mg, Mn, S, Kelp & Humic Acid
  - 40-Pound Bag



- 22-0-16 Country Club MD – 80 SGN**
- Summer formula
  - 80% Meth-Ex Nitrogen & 100% Sulphate of Potash + Fe, Mg, Mn, S, Kelp & Humic Acid
  - 40-Pound Bag



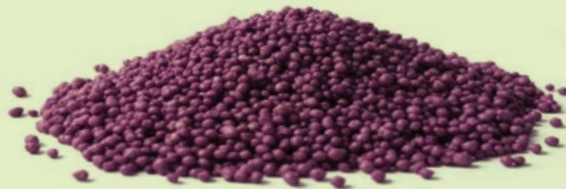
- 12-0-24 Country Club MD – 80 SGN**
- All or fall-season formula
  - 55% Meth-Ex Nitrogen & 100% Sulphate of Potash + Fe, Mg, Mn, S, Kelp & Humic Acid
  - 40-Pound Bag

# Golf Course & Landscape Fertilizers



## PURKOTE™

ADAPTIVE NUTRIENT DELIVERY



**PurKote™** is the next generation of controlled-release fertilizer. **PurKote™** utilizes **Adaptive Nutrient Delivery** technology, which is designed to release nutrients at a rate that is compatible with the requirement of the plant. It's an environmentally-friendly product capable of withstanding significant rainfall events without leaching. Heat and water drive the release of the contained nutrients.

Each of PurKote's purple granules is enclosed in a proprietary polymer coating that controls the release of nutrients in each granule. **PurKote™** products can be customized to provide continuous nutrient delivery from 30 days to 18 months. Regardless of soil pH levels, moisture conditions or microbial activity, **PurKote™** is engineered to be reliable and flexible.

### Adaptive Nutrient Delivery – the key benefits:

- Predictable release curves
- No nutrient lock off
- Release timed with plant needs
- Reduced environmental impact
- Reduced labour application costs
- Up to 2 years of release

### Popular PurKote™ Fairway, Tee & Landscape Blends:

- 24-0-4 50% MidKote + 1% Fe 60-day
- 30-0-4 30% MidKote + 1% Fe 60-day
- 10-0-30 50% MidKote + 1% Fe 60-day
- 34-0-9 100% HiKote + 2% Fe 120-day
- 35-0-5 75% HiKote + Ca/Mg 120-day
- 44-0-0 100% HiKote 120-day

### Customized Release Profiles

Release tailored to your location based on temperature. Available in MidKote and HiKote Urea blends to suit your needs.

#### MidKote Urea (MKU) 45-0-0

Ideal for programs with 2 – 4 applications per season.

15°C	22°C	30°C
70-80 days	60-70 days	30-40 days

#### HiKote Urea (HKU) 44-0-0

Ideal for programs with 1 – 2 applications per season.

15°C	22°C	30°C
200+ days	120-135 days	60-70 days



**PURSELL**  
AGRI-TECH  
SINCE 1934

When Pursell Agri-Tech, who's industry roots developed the original Polyon, announced an innovation in coating technology, the entire industry took notice. This new CRF technology is poised to revolutionize polymer coatings used in the golf, sports turf, and lawn care markets.

## the POWER of PURPLE

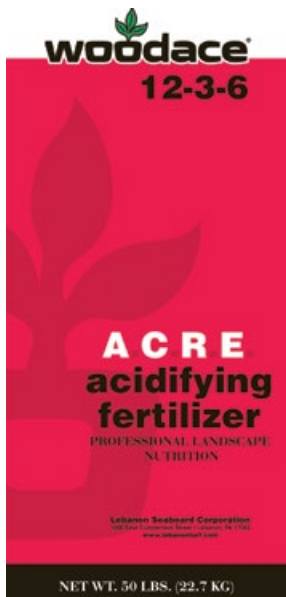


**Woodace®** products are designed to help professionals care for landscape beds and ornamentals. The **Woodace®** product line offers a range of premium fertilizers for a variety of trees, shrubs, and groundcovers. **Woodace®** products provide the ultimate addition to enhance your maintenance program. Discover the opportunity in the **Woodace®** product line today!

### Woodace® 12-3-6 A.C.R.E.

Woodace® 12-3-6 A.C.R.E. is especially formulated for Azaleas, Conifers, Rhododendrons, and Evergreens that thrive in acidic soils. Woodace® A.C.R.E. is also ideal for fertilizing plants where micronutrient availability is limited by high soil pH. Woodace® A.C.R.E. will aid in maintaining a slightly acidic soil pH which is ideal for most evergreens and foundation plants.

- Easy-to-spread granular topdress formula for planting beds and other non-turf areas.
- 56% Controlled release nitrogen derived from METH•EX 40 Methylene Urea.
- Contains Sulphur, Iron, & Manganese.
- Apply around dripline of individual plants or broadcast @ 0.8 to 2.5 lbs / 100ft<sup>2</sup>
- 50-pound bag.



### Woodace® 14-14-14 Flowering Plant Special

Woodace Flowering Plant Special is a premium homogeneous long-term fertilizer for maintaining ornamental landscape plants such as foundation plantings, shrubs, ground covers, trees, and flowers in diverse soil and environmental conditions. Top-dress or incorporate into soils.

- Easy to spread, homogeneous particles insure even distribution of all nutrients with every application.
- 63% of total Nitrogen in a controlled release form using Meth-Ex 40 for long-term feeding.
- Balanced N-P-K formula enhanced with Magnesium, Sulphur, Iron, and Manganese for increased plant vigor and exceptional foliage.
- Application rates vary from 1.4 to 2.9 pounds of product per 100ft<sup>2</sup>; consult label for complete application guidelines and instructions.
- 40-pound (18.14kg) bag



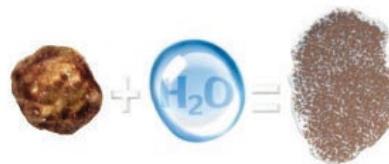
# Golf Course & Landscape Fertilizers



The Andersons offers a full range of premium HIGH-PERFORMANCE fertility and control product solutions to assist Superintendents and Professional Turfgrass Managers in creating and maintaining top quality playing conditions. Performance driven by research, innovation and technology for A+ TURF HEALTH.

## PATENTED DISPERSING GRANULE TECHNOLOGY

Upon contact with water, each granule disperses into thousands of micro particles that quickly move through the turf canopy into the root zone.



## LESS INTERRUPTION OF PLAY

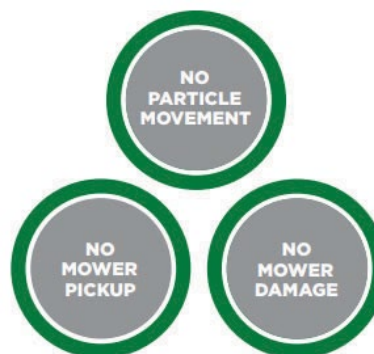
Nutri DG requires less watering to disperse the nutrient granules allowing for less downtime and a drier and firmer playing surface.

## NO STICKY RESIDUE

Nutri DG melts into the turf canopy. The result is no sticky fertilizer residue which can accumulate on shoes, balls, and equipment.

## OPTIMIZED NUTRITION

Nutri DG is designed to optimize granular turf nutrition by combining premium nutrients with our Dispersing Granule Technology, minimizing mower pickup and delivering more fertility for the plant.



### GRANULAR NUTRITION

NPK	Description	N Composition (%)				P Source	K Source	Rates kg/ 100 m <sup>2</sup>	Rates lb/ 1000ft. <sup>2</sup>	Pkg. Wt. kg
		Amm N	Urea N	WIN	WSN					
<b>NUTRI DG GREENS - SGN 75 - FOR GREENS, TEES, SPORTS FIELDS &amp; OTHER FINE TURF</b>										
12-3-12	GEN 3 0.3% Fe, 0.5% Mn, Bio-enhanced with Amvital	12.00	-	-	-	MAP	Potassium Sulfate	0.85 - 2.05	1.70 - 4.20	20
12-24-8	50% MUTEch, 0.3% Fe, 0.5% Mn	6.00	0.90	2.10	3.00	MAP	Potassium Sulfate	1.53 - 3.05	3.13 - 6.25	20
13-0-26	100% MUTEch	-	1.95	4.55	6.50	-	Potassium Sulfate	0.95 - 1.86	1.90 - 3.80	20
17-0-17	GEN 3 50% Mutech, 0.5% Fe, 0.25% Mn	5.31	4.46	2.98	4.25	-	Potassium Sulfate	1.44 - 2.87	2.94 - 5.88	20
18-0-5	75% Mutech, 6.85% S, 7.0% Mn	4.50	2.02	4.73	6.75	-	Potassium Sulfate	0.85 - 2.45	1.7 - 5.00	20
18-9-18	GEN 3 60% Mutech, 0.3% Fe, 0.14% Mn	4.17	4.73	3.75	5.35	MAP	Potassium Sulfate	1.36 - 2.71	2.78 - 5.56	20
19-0-15	100% Mutech, 1.0% Mg, 0.5% Fe, 0.05% Mn, 0.05% Zn, 0.05% Cu	-	2.26	6.89	9.85	-	Potassium Sulfate	1.27 - 2.59	2.60 - 5.30	20

### DG SOIL ENHANCERS - SGN 75-100 - FOR GREENS, TEES, SPORTS FIELDS & OTHER FINE TURF

5-7-5 Genesis Rx	49% Mutech, 21.5% Humic DG, 0.9% Fe, 3.2% Mg, 0.5% Mn, 3.7% Ca, 6.5% S, SGN 75	1.86	1.07	0.86	1.22	Struvite/ MAP	Potassium Sulfate	2.44 - 9.77	5.0 - 20.0	20
DG Gypsum	Dispersable Gypsum for adding Ca and reducing Na 21% Ca, SGN 100	-	-	-	-	-	-	2.94 - 49.00	6.00- 100.00	25

### HUMIC PRODUCTS

Product	Humic Acid Content (A&L Method)	Analysis (%)			SGN	Use Rates on Turf	Bulk Density (kg/m <sup>3</sup> )	Pkg. Size
		Calcium Sulfate Dihydrate (CaSO <sub>4</sub> · 2H <sub>2</sub> O)	Calcium (Ca)	Sulfur (S)				
Humic DG	62%	-	-	-	75 or 240	45 - 225 kg/ha 40 - 200 lbs/ac	640	20 kg poly bag 907 kg bulk bag
Black Gypsum DG	21%	48.0	12.0	8.9	75 or 240	150 - 600 kg/ha 130 - 250 lbs/acre	785	20 kg poly bag 907 kg bulk bag
HCU 44-0-0	2%	-	-	-	215	Spray: 11.5 - 115.0 kg/ha Dry: 85 - 170 kg/ha	737	22.68 kg bag

### FERTILIZERS WITH HUMIC

Product	Feature	Typical Rates			SGN	Sources		Use Rates on Turf	Pkg. Wt.
		Products Lbs/M	Nutrients Lbs/M	Black Gypsum DG Lbs/Acre		P	K		
22-0-4	50% of N from HCU 43% Black Gypsum DG	4.0	0.88 N	74	240	-	SOP	1.7 - 2.20 kg/100m <sup>2</sup> 3.5 - 4.5 lb/1000ft <sup>2</sup>	20 kg
Castaway DG	Derived from Tea Seed Meal, DG Technology, 1% N	3.0 - 5.0	-	-	100	-	-	3 - 6 lbs/1000ft <sup>2</sup>	18.14 kg

Ask your Even-Spray sales representative about the complete high-performance Andersons product line-up of plant nutrition and protection that can take your turf to the next level. [www.AndersonsPlantNutrition.com](http://www.AndersonsPlantNutrition.com)

## Liquid & Granular Soil Amendments / Enhancers



### AQUATROLS Blast Sprayable

An advanced, uniquely safe acid formulation combined with Synergy Technology, a patented and advanced soil surfactant. Blast Sprayable safely dissolves carbonate build-up in the soil, rapidly opening soil pore space for better infiltration and percolation of water. It also frees up bound Calcium, Magnesium, and other bound nutrients.

- Greens Rate: 22 – 44 ml / 1,000 ft<sup>2</sup> in 7.6 Litres of water.
- Fairway Rate: 946 ml – 1.89 litres in 189L (50 US Gallons) of water per acre.
- Apply 1 X / week for 3 weeks and then every 14 days, as needed.
- Irrigate in immediately after applying to move Blast into the soil profile.
- Available in 10L jugs.



### GRIGG™ KELPLEX™ 1-2-2 – 9.46 Litre

GRIGG™ Kelplex™ contains seaweed extract (*Ascophyllum nodosum*) in a liquid form which can be used as an excellent component of a summer stress management program.

- Concentrated 75% foliar seaweed extract containing an active source of natural plant growth regulators, Organic and Amino Acids.
- Contains enzymatic and non-enzymatic antioxidants, limiting oxidative stress.
- Improves heat, drought, and salinity stress tolerance.
- Increases primary plant metabolism including photosynthesis and protects cellular membranes.
- Supplement to an existing foliar and granular fertilizer program.
- Apply at a rate of 30 – 60 ml / 1,000 ft<sup>2</sup> every 14 days prior to the onset of stress.



### Brandt Seaweed Max 0-0-2 – 9.45 Litre

Brandt's Seaweed Max is a concentrated formulation containing 25% seaweed extract derived from *Ascophyllum nodosum*. Used as an important management tool to enhance plant tolerance to and recovery from abiotic stress, resulting in better turf establishment and overall vigor. The potassium content Potassium Citrate helps regulate primary physiological processes that impacts turf response to stress and supports cellular processes. Can be sprayed or applied via deep root injection.

- Derived from *Ascophyllum nodosum* seaweed and Potassium Citrate.
- Use to combat turfgrass stresses throughout the growing season and during seed establishment.
- Spray Application Rate: 45 – 90 ml / 1,000 ft<sup>2</sup> monthly.
- Deep Root Injection Rate: 1.89 – 3.78 litres in 40 litres of water.



### Target Specialty Products RDX-5-2-0 with 2% iron

5% of total N supplied by slow release organic matter in a 150 SGN particle size. This product was developed to mimic Milorganite which is no longer available in Canada.



### HUTCHESON Green Topdressing & Divot Sand – 50 LB Bags

Made to meet USGA specifications, Hutcheson's green-dyed topdressing sand can assist in increasing green speed by producing a smoother putting surface. Washed and dried; easy to apply with a rotary spreader without drag matting.

- Provides visually superior divot repairs on tees / fairways and on thin or worn areas on putting surfaces.
- Light application rates help prevent thatch build-up with fewer player interruptions – no matting in eliminates turf abrasion, encouraging turf health.
- Also available – **Early Green** Black Topdressing Sand and **B Natural** non-dyed Topdressing Sand.



### PROFILE POROUS CERAMIC Soil Amendment – 50 LB Bags

There is a Profile Porous Ceramic particle size for every area on your golf course, whether it is sand-based or native soil, for new construction, renovation, or maintenance. Added to sand or soil, it increases drainage at the same time it increases moisture retention, a result of balancing air and water pore space in the root zone.

A Profile particle is 74% pore space with approximately 39% capillary (water) and 35% non-capillary (air) pores. Available in Greens Grade and Field & Fairway Grade in both "Natural" "Emerald Green" colours to suit your application needs.



- Holds 93% of its weight in water and makes it plant available.
- Drains faster than sand; reduces water usage up to 20%.
- Prevents compaction; eliminates localized dry spots.
- Reduces organic build-up and dries out surface algae.

*Profilegolf*

Common Applications Include:

- Light, frequent topdressing programs.
- Backfill for aeration on putting greens.
- Blended into soil for renovation/construction.