



Research Driven,
Proven Results®

NUTRITION PROGRAM

NUTRITIONAL PROGRAMS TO INCREASE ESTABLISHMENT VIGOR

GRIGG offers a range of unique products that can provide optimal results for golf course grow-in and establishment situations. GRIGG GreenSpec® granular nutrients provide an excellent source of quickly available and slow release nitrogen (N). The homogenous granules offer a unique natural organic N source derived from protein by-products, providing increased N recovery by turfgrass being established on sand, thus improving their vigor*. Fortified with iron (Fe), manganese (Mn), zinc (Zn) sucates and kelp, the GreenSpec line provides unparalleled turf color and quality. The products also contain 3.2% humic acid derived from leonardite for enhanced moisture retention and CEC, soil building, and thus accelerated grow-in.

GRIGG Seven Iron™ 7-7-7 granular has demonstrated outstanding results in research trials and in the field for grow-in programs across the U.S. This bridged (hybrid) organic product provides stability of available nutrients in sand root zones while promoting vigorous establishment and soil health. The product also contains 7% iron, 3% calcium and 7% sulfur. Endurance™ 8-4-16 is another excellent grow-in material that will deliver metered nitrogen during establishment and balance available mineral nutrition in the developing root zone and rhizosphere.

GRIGG Proven Foliar® nutrients complement the pre-plant granular products exceptionally well, and is a superior method of promoting a rapid grow-in without producing excess biomass, commonly referred to as a grow-in thatch layer. Avoiding an organic matter grow-in layer is essential with management of newer creeping bentgrasses and hybrid Bermuagrasses, especially at sites with expectations for championship level putting greens and fairways. The chelating and complexing agents in the GRIGG Proven Foliar nutrient line will also enable these products to address macro and micronutrient deficiencies common in sands with basic pH.

In 2016, a new joint-venture, BRANDT® iHammer, was formed to bring new plant health technologies to the turf and ag markets. The proprietary formulations maximize carbohydrate production to produce a stronger, better-anchored plant capable of tolerating traffic and other stressors as plants are establishing. Research has shown that BRANDT Upplause® Plus can improve establishment time of turfgrass compared to an equivalent amount of soluble nitrogen in the form of ammonium sulfate (AS). BRANDT Reaction® enhanced efficiency fertilizers are another product line that offers a perfect fertigation option as a soluble nutrient source with extended availability on sand based soils.

Built on years of research and proven results, these putting greens/tees and fairways grow-in recommendations will provide excellent results and build a balanced root zone.



** Evaluation and Comparison of Slow-Release Nitrogen (N) Sources on Tifway Bermudagrass*

Creeping Bentgrass / Hybrid Bermudagrass

Putting Greens / Tees

Pre-Plant [§] Product	Rate/1,000 ft ²	Nutrient Dose/1,000 ft ²
GRIGG Seven Iron	40 lbs	2.8 lbs N, P, K, Ca, S, Fe 0.6 lbs Mn 0.08 lbs Zn

Grow-In Timing [†]	Product [†]	Rate/1,000 ft ²
At Early Emergence	GRIGG Nutra Green™	7 fl oz
	BRANDT Upplause Plus	3 fl oz
3 Weeks After Emergence (WAE)	GRIGG Seven Iron	8 lbs
	GRIGG Gary's Green Ultra®	12 fl oz
4 WAE	GRIGG Nutra Green	8 fl oz
	BRANDT Upplause Plus	3 fl oz
5 WAE	GRIGG Seven Iron	8 lbs
	GRIGG Gary's Green Ultra	12 fl oz
6 WAE	GRIGG Nutra Green	8 fl oz
	BRANDT Upplause Plus	3 fl oz
7 WAE	GRIGG Seven Iron	10 lbs
8 WAE	GRIGG Endurance™	10 lbs
9 WAE	GRIGG Gary's Green Ultra	12 fl oz
	BRANDT Upplause Plus	3 fl oz
10-12 WAE	GRIGG Seven Iron	6.25 lbs



For a distributor near you contact:
800 300 6559 or www.grigg.co

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Fairways (Sand Capped)

Pre-Plant [§] Product	Rate/1,000 ft ²	Nutrient Dose/1,000 ft ²
GRIGG Seven Iron	30 lbs	2.1 lbs N, P, K, Ca, S, Fe 0.45 lbs Mn 0.06 lbs Zn

Nutrient Injection Option (Fertigation) At Early Emergence until Uniform Cover (every 7 days):

Product	Rate/Acre
Urea (UN32) (32-0-0)	3 gal
BRANDT Reaction P (2-12-0)	1 gal
BRANDT MKS (0-0-4; 2.1 Mg, 3.2 S)	2 gal

With Adequate Turfgrass Cover and Dry Conditions, Begin Topical Fertilizer Applications:

Grow-In Timing	Product [†]	Rate/1,000 ft ²
1 Week After Uniform Cover (WAC)	GRIGG Seven Iron	10 lbs
	GRIGG Burley Green®	8 fl oz
2 WAC	GRIGG Iron Combo™ 12-0-0	4-6 fl oz
	BRANDT Upplause Plus	3 fl oz
4 WAC	GRIGG Seven Iron	10 lbs
	GRIGG Burley Green	8 fl oz
5 WAC	GRIGG Iron Combo 12-0-0	4-6 fl oz
	GRIGG Endurance	10 lbs
6 WAC	GRIGG Burley Green	8 fl oz
	GRIGG Iron Combo 12-0-0	4-6 fl oz
8 WAC	BRANDT Upplause Plus	3 fl oz
	GRIGG Seven Iron	6.25 lbs

[§] Incorporate this product into the top 2-4 inches of the root zone just prior to seeding. Seed the green and roll to provide smoothness and good seed-soil contact.

[†] Apply foliar fertilizers with a spray hawk or other walking sprayer if possible.

[‡] Water in all GreenSpec granular products with a minimum of 0.125 inches.