



Frequently Asked Questions

What is NITAMIN[®] Coated Sand?

NITAMIN[®] Coated Sand was developed and patented by Georgia-Pacific Corporation (GP) as a unique and effective way of delivering nitrogen to turf. Fairmount Minerals (FM) manufactures the product for GP by fusing NITAMIN STEADYDELIVERY™ nitrogen to USGA-spec, high-quality sand processed by FM. The fertilizer incorporated in NITAMIN Coated Sand contains a combination of linear and cross-linked long-chain methylene urea polymers. The result is a product that provides an extended and steady release of nitrogen.

How is the nitrogen in NITAMIN Coated Sand released to the turf?

As with other methylene-urea fertilizers, the urea polymers in NITAMIN Coated Sand are first mineralized into urea molecules by microorganisms in the soil. The urea molecules are then converted to ammonium by urease enzymes in the soil. Once in the ammonium form, the nitrogen is further converted to nitrate via nitrification.

What is the release time of NITAMIN Coated Sand?

The release of the NITAMIN Coated Sand depends on microbial action, so nitrogen release rates are affected by environmental conditions. General guidelines for release rates are that in warm, moist environments the product will release nitrogen for at least six months, while in cooler, drier environments the product may release for as long as eleven months.

How much NITAMIN Coated Sand do I need to apply?

The amount of NITAMIN Coated Sand needed depends on a variety of factors including turf species, soil type, and weather conditions. For example, sandy soils are porous and prone to leaching and require more applications of nitrogen. Vigorous grasses like Kentucky bluegrass or turf-type perennial ryegrasses require large amounts of nitrogen and water to sustain their rapid growth. Slower-growing grasses like *Poa annua* or certain grass mixes typically require less fertilizer. Your maintenance practices play a large role in determining how much nitrogen you need to add to your turf. General application guidelines are 50 – 100 pounds of NITAMIN Coated Sand per thousand square feet of turf, depending on your objectives.

What spreader setting should I use to apply?

For an Andersons broadcast spreader (AccuPro 2000 or SR-2000), use spreader setting “Y” (wide open) and a cone setting of “9”. At the recommended walking speed of 3 mph, this setting will deliver 30 pounds per 1,000 square feet. Swath width = 6 feet.

What are the advantages of using NITAMIN Coated Sand?

University research and golf course study data effectively demonstrate that NITAMIN Coated Sand significantly accelerates turf growth and recovery. This capability makes NITAMIN Coated Sand ideal for turf establishment and divot repair, as well as for use with post-aerification and in heavy-traffic areas such as tees and aprons of greens. Additional benefits include:

- Fertilization and top-dressing can be done at the same time;
- The sand carrier keeps the nitrogen where it's put. It also provides a consistent fertilizer particle size, allowing even distribution of nitrogen and eliminating the mottling effect observed with some granular products;
- Sand particles have a desirably high bulk density, preventing fertilizer bounce at application and post-irrigation collection in low spots;
- The small particle size of sand allows it to be applied to greens without negatively affecting the quality of the playing surface or infiltration rates.

What study data do you have on NITAMIN[®] Coated Sand?

Field studies demonstrating NITAMIN[®] Coated Sand's performance have been conducted at universities with strong turf programs, including Ohio State and Penn State. Studies are also underway at the University of Florida and the University of Georgia.

Ohio State University - Dr. Karl Danneberger : Demonstrated that backfilling coring holes with NITAMIN Coated Sand versus traditional sand enhanced core hole recovery. Recovery was 4 to 5 times more rapid. See attached reprint of study results published in TurfGrass Trends magazine, March 2005.

Pennsylvania State University - Dr. Max Schlossberg : Showed that topdressing typical divot damage with NITAMIN Coated Sand resulted in significantly greater recovery as compared to topdressing with IBDU or ammonium spiked sand. See attached reprint of study results published in TurfGrass Trends magazine, March 2005.

What is the particle distribution of NITAMIN Coated Sand?

The particle distribution of NITAMIN Coated Sand conforms to USGA specs:

Sieve Size	Nitamin Coated Sand % Retained	USGA Specs
6	0	< 3.0 %
10	0	
18	4.4	< 10 %
35	20.2	> 60 %
60	57.8	
100	16.4	< 20 %
140	1	< 5 %
200	0.1	
270	0	
Pan	0	< 5 %

What is the burn risk?

The burn potential of fertilizer depends on two factors - the amount of nitrogen available for immediate use and the salt content of the product. NITAMIN® STEADY-DELIVERY™ fertilizers significantly reduce the burn risk associated with over application by ensuring that the nitrogen is released at a consistent rate over time. Our products are specially designed to have extremely low levels of salt and biuret, making them safe for most turf applications.

Label on the bag:

Nitamin™ Coated Sand Fertilizer

1-0-0 Guaranteed Analysis

Total Nitrogen (N).....1.0%
 0.95% Water Insoluble Nitrogen*
 0.05% Urea Nitrogen

Derived from Methylene Urea & Urea
 *Slowly Available Nitrogen derived from Methylene Urea

Ingredients: Sand & Fertilizer.

Guaranteed by:
 Mineral Visions, Inc.
 Chardon, OH
 1-800-255-7263

Net Weight: 50 lbs / 22.6 kg

Florida registration: F1577

Directions For Use in Topdressing: Recommended 50lbs.
 per 1000 square feet for 0.5 lbs of Nitrogen.
 Minimum 2 applications per year.

Directions for Use in Divot Repair: Fill divot as needed.
 Apply as often as necessary.

