

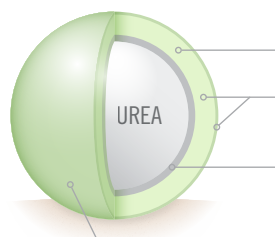


SLOW-RELEASE NITROGEN TECHNOLOGY

Up to 10 Weeks of Available Nutrition Dependable & Steady Extended Nitrogen Release

XCU® slow-release fertilizer provides gradual, steady nutritional uptake for up to 10 weeks of plant response. XCU® fertilizer has a high nitrogen (N) content (43%) with the addition of sulfur (4%), which provides added nutrition to the plant and can amend the soil. The value is more area can be covered per application using less fertilizer, which is more efficient and economical. Also, with less N lock-off more of the applied N is taken up and utilized by turfgrass or plants in the expected time frame. XCU® slow-release fertilizer has been widely used by superintendents, LCOs, municipal turf managers and professional landscapers to economically and efficiently promote a plant response of health, growth and color for up to 10 weeks per application.

XCU® Advanced Dual-Coating Technology



- Light sulfur coating** reduces N lock-off and delivers more N
- Outer layers** consist of a thin coating of elemental sulfur and polymer wax, which work together to protect the inner polymer coating
- Inner layer** consists of a thin, crosslinked polymer film that encapsulates and protects the urea granule
- Coating integrity** is maintained during transport, blending, bagging and application
- SGN options** regular and mini

Options

XCU® is available in regular or mini to fit a number of fertilization programs.

Granule options at actual size	Mini 	Regular 
ANALYSIS	41-0-0	43-0-0
SGN	120-180	220-270
Nitrogen	41%	43%
Sulfur	7%	4%

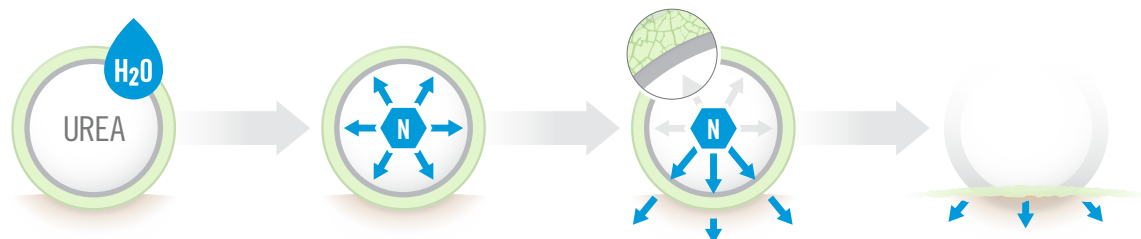
Key Benefits

- **Unique polymer and sulfur coating technology** - provides gradual, consistent and cost-effective slow-release nitrogen
- **Dual-coated technology** - provides up to 10 weeks of plant response
- **Contains sulfur** - which offers additional nutrition to the plant and can amend the soil
- Increased percentage of XCU® fertilizer in blends delivers increased value and improved nutrient uptake
- Fewer applications can reduce overall fertilizer expense, fuel costs and equipment upkeep; allows for optimization of labor
- **Highly flowable** - for ease of handling and consistent application
- **Environmentally responsible** - with low potential for nutrient leaching, denitrification, runoff or volatilization

Industries: Lawn & Landscape, Golf, Sports Turf



How It Works



Soil moisture penetrates the sulfur and polymer coatings.

Nitrogen begins to dissolve creating pressure within the granule.

With previous-technology SCUs, this pressure cracked the coating, immediately releasing N (catastrophic release). The inner polymer coating of XCU® fertilizer results in a hybrid of diffusion-based release and catastrophic release, resulting in a more consistent release profile.

After N release, the sulfur eventually breaks down into the soil where it may be taken up by the plant.

Flexibility

Only a portion of the N applied as conventional fertilizer is taken up by plants, but enhanced efficiency fertilizers (EEFs) increase N uptake. Increasing the XCU® fertilizer content in blends results in more efficient N use; the more XCU® fertilizer used, the better your blends work.

FERTILIZER BLEND	lb. N taken up from 1 lb. N application	% increase vs. 100% urea
100% urea	0.36	n/a
75% urea / 25% XCU®	0.42	17
50% urea / 50% XCU®	0.48	34
25% urea / 75% XCU®	0.54	51
100% XCU®	0.61	69

Above data from University of Florida and Pennsylvania State University.

The underlying data in university studies was provided under a Research Trial Financial Support Agreement with the university. The universities mentioned do not endorse or recommend any product or service.

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