



Foliar-Pak®

WINTER PREPARATION PROGRAM

As daylight hours decrease in the fall, turfgrass naturally undergoes a process called hardening off. It's the plant's way to defend against freezing and winter damage by building tolerance to cold temperatures. Turfgrass hardens off by storing carbohydrates in the cells of the crown and root tissues, increasing cell solute concentration, accumulating proteins, and strengthening cell wall structures.

Higher levels of carbohydrates and potassium increase solute concentrations and act as antifreeze, which prevents ice crystals from forming within the cells. Cell walls and membranes undergo changes that improve their ability to tolerate ice crystals while the moisture content in the plant tissues decrease.

The Foliar-Pak Winter Preparation Program will enhance the plant's natural efforts to prepare for winter. It's a simple plan that helps the plant maximize its physiological activity in terms of winter protection.

Apply these products in tank mix solution at recommended label rates. Spray bi-weekly beginning early to mid-October. Since the amino acids will enhance uptake of systemic control products, include necessary fungicides and growth regulators with these late season sprays. Snow mold control will also be enhanced when tank mixed with this late season nutrient combo.





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Build the health of your turf this fall in order to sustain the rigors of winter stress.

- › Increase photosynthetic activity for further carbohydrate production
- › Better transformation of sugars to starch
- › Greater carbohydrate storage
- › Ensure proper hardening off to improve freeze and desiccation tolerance
- › Improve nutrient use efficiency and conserve energy
- › Increase rooting
- › Improve snow mold controls

Foliar-Pak® 1-0-15

A premium K source that is formulated with amino acid technology. This maximizes uptake of K even during cooler temperatures. Potassium directly and indirectly increases cell solutes which act as the plant's natural antifreeze. The K⁺ ion itself will increase solute concentration. Additionally, K is necessary for the conversion of simple sugars to carbohydrates. This is important since carbohydrates are also used by the plant to increase solute concentrations.

Foliar-Pak® Foundation Forty

New concentrated amino acid formula which improves plant performance in multiple ways:

- › Increased nitrogen fixation
- › Increased chlorophyll synthesis and energy production
- › Stimulates the production of anti-stress compounds

This means the plant can store more carbohydrates and have better stress tolerance for the approaching winter.

Foliar-Pak® Amperage

A molasses and gluconate-based micronutrient package. Chelated micronutrients maximize photosynthesis, helping to increase carbohydrate production. High grade, natural blackstrap molasses works to supplement carbohydrates to the plant when conditions are less conducive for photosynthesis. Amperage contains zinc, which is instrumental in protein synthesis and carbohydrate metabolism.

Foliar-Pak® CSi™

CSi offers a plant-derived silicon that is protected with natural carbon sources to ensure rapid foliar uptake. Si strengthens cell walls and cuticles for better cold temperature and traffic stress tolerance. A physically stronger plant will handle all of the pitfalls of winter weather and traffic more effectively.