



GROW IN - HYBRID BERMUDA GRASS

SUPPORTING RAPID ESTABLISHMENT

Successful hybrid bermuda grow-in requires balanced nutrition that supports root development, plant strength, lateral spread and energy production. This TAP focuses on the key plant processes needed to accelerate establishment and quickly develop a dense, stable playing surface.



RECOVERY

High Five accelerates recovery, maximises growth and development.



STRENGTH

ProteSyn gives energy and molecular strength from simple and complex carbohydrates and all the essential amino acids.



LATERAL GROWTH AND DENSITY

Per 4 Max accelerates lateral growth and density through patented biostimulant chemistry.



ENERGY

PK Fight initiates re-rooting, energy and stress resistance with potassium phosphite and proprietary organic acid technology.



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Hybrid bermuda grow-in is one of the most critical stages in turf establishment, yet it is also where many new surfaces struggle. Newly constructed rootzones often experience fluctuations in oxygen availability, salt concentration, and soil temperature – all of which directly influence root respiration and plant establishment.

Young bermuda plants rely heavily on efficient oxygen exchange in the soil profile. Oxygen must dissolve into soil water before it can be absorbed by roots, meaning that any factor affecting oxygen solubility or soil pore space can significantly influence turf development.

During grow-in, several environmental conditions can reduce oxygen availability and slow establishment:

- **Increasing Temperatures** - Daytime temperatures above 27°C (80°F) can reduce oxygen solubility by up to 30%.
- **Falling Barometric Pressure** - Approaching low pressure systems can reduce oxygen solubility by approximately 3%.
- **Increasing Salt Content** - An increase in EC of 1 point can reduce oxygen solubility by 3%.

These factors can place additional stress on developing plants and slow the spread of stolons and rhizomes that are essential for rapid hybrid bermuda coverage.

A well-structured nutritional and biostimulant program helps support root development, plant metabolism, and lateral growth, allowing hybrid bermuda to establish faster and more uniformly across the surface.

SOLUTIONS

1. Establish Root Development Quickly

Encourage root development early during the grow-in phase to rapidly expand the root system and stabilise the rootzone. As roots develop and spread, the plant is better able to utilise nutrients, water and oxygen while supporting microbial activity in the soil.

Balanced nutrition during establishment promotes the building of structural proteins and strong cell walls, supporting vigorous plant growth and improved turf density.

- **PK Fight** - provides phosphorus and potassium to support root initiation and early plant development
- **ProteSyn** - supports protein synthesis and plant metabolism to accelerate establishment and plant strength.

Note: Angular sand is excellent for soil structure in newly constructed rootzones; however, excessive brushing during early establishment can cause abrasion and damage to immature plants. These wounds can slow establishment and increase susceptibility to disease. Where possible, minimise mechanical stress during early grow-in.

2. Accelerate Canopy Coverage (Without Excess Nitrogen)

Rapid lateral growth is essential during hybrid bermuda grow-in to achieve full surface coverage quickly and stabilise the playing surface.

A balanced nutrition program promotes stolon and rhizome development while avoiding excessive top growth that can weaken young turf plants. As the canopy thickens, soil temperature stabilises and moisture loss is reduced, improving overall turf establishment.

- **High Five** - bio-stimulant chemistry that promotes lateral growth and turf density during establishment
- **Per 4 Max** - balanced nutrition and plant metabolism support to strengthen developing turf plants