



# Turf Pride® PreStress Biostimulant System

Targeted inputs with proven ingredients, efficient use rates, and consistent performance.

## Thatch Accumulation



### EXCESS TOP GROWTH

Rapid, stress-induced growth adds more organic material to the surface.



### WEAK, STRESSED TISSUE

Poor stress tolerance leads to weaker tissue that breaks down slowly into thatch.



### SHALLOW ROOTS

Limited root development reduces organic matter cycling in the root zone.



### TRAFFIC & COMPACTION

Compresses the soil, limits oxygen and water, slowing natural decomposition.



## PreStress Foliar Stress Management

- ✓ Improves stress tolerance
- ✓ Promotes density, vigour, & uniformity
- ✓ Improves nutrient efficiency
- ✓ For greens, tees, fairways & fine turf

## PreStress-Air Soil & Water Management

- ✓ Improves water infiltration
- ✓ Reduces dry spots
- ✓ Supports root respiration
- ✓ Aids thatch & compaction management

## Thatch Management



### WATER MOVEMENT

Surfactants improve infiltration and moisture distribution, creating the right conditions for decomposition.



### MICROBIAL ACTIVITY

Carbon sources and fulvic acid stimulate beneficial microbes that break down organic matter.



### NUTRIENT BALANCE

Urea provides available nitrogen to balance the C:N ratio and support microbial efficiency.



### ORGANIC MATTER BREAKDOWN

Active biology breaks thatch down into simpler compounds, converting it into stable humus.

## Turf Pride® PreStress

### AminoGro

#### METABOLIC FUNCTION

Free-form L-amino acids provide readily available nitrogen for protein synthesis and act as precursors to stress response compounds and enzymes.

### Fulvic Acid

#### CHELATION & UPTAKE

Low molecular-weight organic acid that chelates micronutrients, enhances membrane permeability, and drives rapid foliar and root nutrient uptake.

### Glycine Betaine

#### OSMOPROTECTANT

Powerful osmoprotectant that stabilizes cellular membranes under heat, cold, drought, and salinity stress, maintaining plant function under pressure.

### Kelp Extract

#### STRESS MITIGATION

Rich, natural source of cytokonins, auxins and potassium that stimulates cell division, root elongation, recovery and mitigation of turf stress.

### Monosilicic Acid

#### CELL WALL STRENGTH

Plant available form of silicon to strengthen cell walls and improve wear tolerance.

### Salicylic Acid

#### STRESS SIGNALING

Plant defense hormone that activates systemic acquired resistance (SAR), priming turf to withstand biotic and abiotic stresses with a stronger, faster response.

## Turf Pride® PreStress-Air

### Tea Seed Saponins

#### MOISTURE AND ACCESS

Natural surfactant that improves water infiltration and uniformity, reducing hydrophobic conditions and supporting microbial access.

### Fulvic Acid

#### BIOLOGICAL ACTIVATION

Enhances microbial activity, nutrient availability, and enzyme function to accelerate organic matter decomposition.

### Molasses

#### MICROBIAL FUEL

Provides a readily available carbon source that feeds beneficial microbes and increases biological activity responsible for thatch breakdown.

### Urea (15%)

#### NITROGEN SOURCE

Supplies available nitrogen to balance the C:N ratio, supporting microbial growth and faster decomposition of organic matter.

## THE RESULT

- ✓ Reduced thatch accumulation
- ✓ Improved root health
- ✓ Better water & nutrient efficiency
- ✓ Increased stress tolerance
- ✓ Consistent, high-performance turf

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