

# Hicure: The first bio stimulant for Turf from Syngenta



Hicure™ is the first biostimulant offering from Syngenta into the Turf marketplace. Designed with 18 free amino acids, and short and long chain peptides, Hicure is proven to build turf strength, protect against abiotic stresses, and expedite recovery after damage.

With its unique formulation, the culmination of 4 years of studies with over 40 turf trials, Hicure is built to condition turf, allowing it to perform through difficult times. Hicure effectively reduces the impacts of cold, heat, drought and most abiotic stresses, while improving your turf's ability to recover. Hicure accomplishes these tasks by physiologically boosting plant energy, improving cellular osmo-protection, and increasing nitrogen assimilation.



## Free amino acids:

18 different free amino acids immediately available to the turf to protect cells from stress.

These also conserve plant energy by providing an organic N source, thus reducing the requirements for N uptake from soil which is energy demanding.

## Short chain peptides:

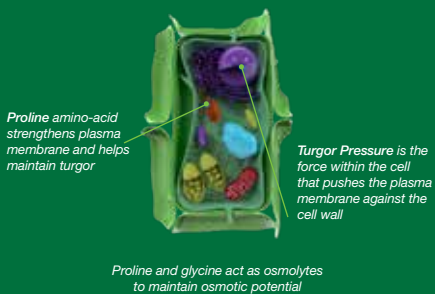
Absorbed more slowly and converted into amino acids or proteins as needed over 7 to 10 days. Proteins have many important functions in the plant.

## Long chain peptides:

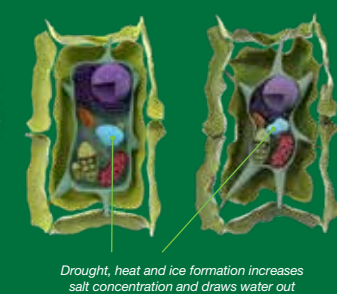
These can be considered as slow-release peptides, extending a positive residual effect on the soil and being absorbed into the plant over a period of weeks.

## Mode of action

### With Hicure



### Without Hicure



Hicure is a liquid plant biostimulant based on amino acids and peptides, the building blocks of proteins, which are necessary for every level of cell function.

High in proline, glycine, and glutamic acid, Hicure supports natural processes in the plant, enhancing general plant performance especially under abiotic stress conditions.

## Formulation and Coverage

Hicure is formulated, using naturally occurring turf components that are turned into a high concentration liquid plant biostimulant and offered in a convenient 4 x 5 L case.

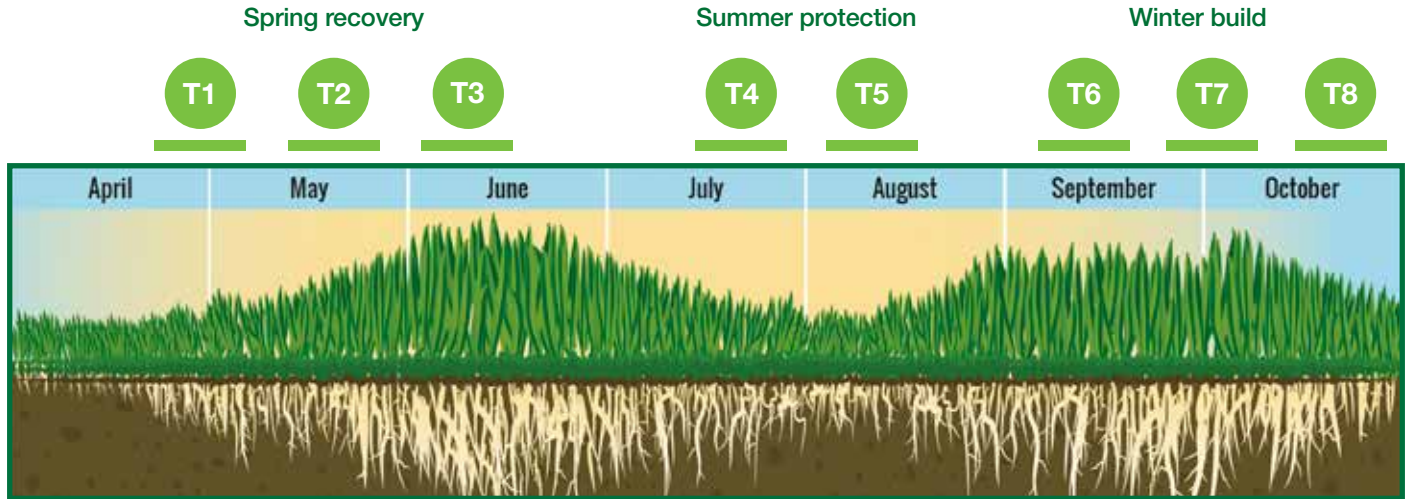
Each 4 x 5 L case of Hicure treats 10,000 m<sup>2</sup> (2.47 acres) at the high label rate (20 L/ha).

## Use recommendations

Hicure offers turf application rates between 10-20 L/ha under intervals of 14-28 days.

Hicure should be used consecutively, in a program, as a preventative product, ahead of abiotic stressors, or during periods of desired plant recovery during less than ideal growing conditions.

Hicure is compatible with many products including fertilizers and most crop protection chemistries. **Do not** use Hicure in combination with sulphur, mineral oil or copper containing products. Jar testing new combinations, along with checking cultivar susceptibility, through treatment of a small area ahead of application, is suggested.



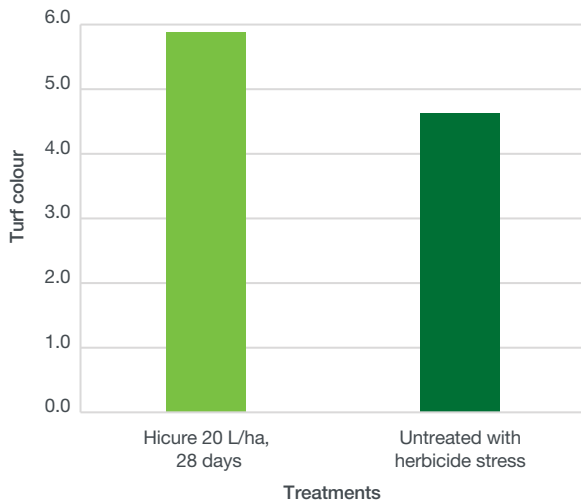
Hicure Program Approach: 10-20 L/ha (every 2-4 weeks)

## Trial results

### Recovery – Turf colour/quality enhancements

#### Bentgrass turf colour

(4 weeks after herbicide damage)



Herbicide: bispyribac-sodium  
Hicure applications before stress: 2  
Hicure applications after the stress: 1

2016MM35 (1-17). Hicure preventative applications and Herbicide stress. Date: 16/5/17

Active ingredient	Formulation type	Case size	Case coverage	Water volume	Nozzle selection
Amino acids and peptides	Solution	4 x 5 L	1.0 – 2.0 ha (2.47 – 4.94 acres)	250 – 500 L/ha	Syngenta XC 025 Syngenta XC 04 Syngenta XC 08

For more information, visit [Greencast.ca](http://Greencast.ca), contact our Customer Interaction Centre at 1-87-SYNGENTA (1-877-964-3682) or follow @Syngentaturfca on Social Media.

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