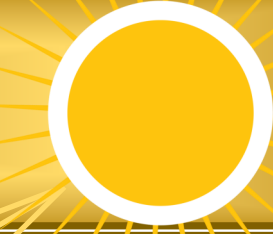


Soilsmart



PhotoBor

Carbohydrate supplement



Photosynthesis produces
Carbohydrates in the leaf

Carbohydrates are the plant's
primary food source and are
made from
Oxygen, Carbon & Hydrogen

The remaining Carbohydrates
are used by the plant to fuel
numerous plant functions

Carbohydrates account
for 96% of nutrients
plants need for growth
& development

About 50-60% of Carbohydrates
produced are directed to roots
to stimulate root activity & feed
beneficial soil microbes



PhotoBor contains a unique combination of plant boosting carbohydrates (fructose & glucose) which can overcome issues associated with shade or reduced sunlight levels. PhotoBor also contains several key micro nutrients which are essential to the production and translocation of carbohydrates within the plant

PhotoBor contains the hormonal & plant growth stimulating benefits of Deep Sea Kelp, including Saponin & Aloe Vera

PhotoBor is an exceptional Bio-balancer and stimulant, it also contains Aloin, Gibberelins and Cytokinins which are key plant growth promoters able to reduce stress and stimulate root growth and recovery

PhotoBor contains Humic and Fulvic acids which are important in boosting and assisting with the uptake of supplemental carbohydrates

Plants use energy from the sun to produce carbohydrates (sugars) via the process of photosynthesis. These carbohydrates are essential for plant growth, particularly root health and development. The three 'essential elements' which make up these carbohydrates (Oxygen, Carbon & Hydrogen), also account for 96% of the nutrients a plant needs for growth & development.

Under certain conditions - often due to leaf damage (disease or insect), shade or even prolonged overcast conditions, this important process of carbohydrates production can be impaired and have serious effects on plant health and performance.

The regular cutting of turf is also something we need to take into consideration – not only does it remove the leaves where carbohydrates are produced, it also impacts the ability of sugars to move from the leaf into the plant.

About half the carbohydrates produced in the leaf is directed to the roots to stimulate root activity and to feed soil microbes which is why, when this important process is interrupted, the root system the first casualty and first symptom of an issue.

Causes of reduced Carbohydrate production and when to use a Carbohydrate supplement

- ◆ PhotoBor can be applied monthly to supplement reduced Carbohydrate production in fine cut turf - when cutting below 10mm regularly Carbohydrate production becomes limited.
- ◆ Plants & Turf under consistent shade - for example Trees, buildings, grandstands & hail nets. Pre and post supplementation can even overcome the effects caused by the erection of temporary structures such as tents, marquees, stages on turf surfaces.
- ◆ Pre & Post renovations - the physical impacts of renovation can induce a lot of plant stress, so ensuring that plant Carbohydrate levels are at a good level will assist with recovery.
- ◆ Pre & Post Dormancy programs - plant recovery from dormancy is closely linked to the level of Carbohydrate put into storage pre – dormancy. Applying before dormancy, during and again as the plant begins to emerge from dormancy will assist recovery and reduce dormancy periods, encouraging optimal plant strength heading into Spring.

Turf- All soil types	Landscape & Pots	Home lawns	Hydroponics	Crops / Broadacre	Fertigation / Injection
20L/ha Monthly Irrigate product to root zone	20ml/10L water Every 2-4 weeks	200ml/100m2 Every 2-4 weeks Water in well	400-600ml Daily in 5000 –10000L Water	8L/Acre Monthly	20-40L/ha Every 2-4 Weeks