

LALSTIM OSMO



WETTABLE POWDER

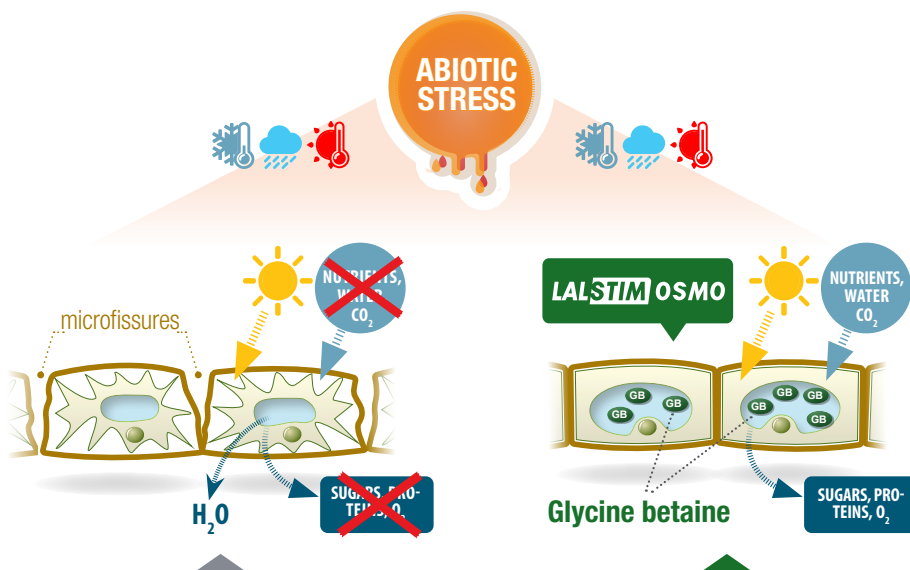
For enhancing growth of golf and sports turf

LALSTIM® OSMO contains glycine betaine, an osmolyte naturally enhancing stress tolerance in plants. Glycine betaine is absorbed quickly by the plants, where it maintains the water balance and the normal activity of plant cells during environmental stresses. LALSTIM® OSMO helps to maintain the good condition of golf and sports grasses during unfavorable temperature and moisture conditions and enhances the growth in early season.

MODES OF ACTION

LALSTIM® OSMO protects the normal physiological activity of plant cells during stress conditions:

- Maintains the water balance and prevents cell damage.
- Enhances photosynthesis.
- Improves the circulatory flow of water and nutrients, especially calcium and other trace elements.



During stress conditions, cell metabolism slows down, microfissures appear between cells and water is lost from the cell.

With the help of glycine betaine, normal cell metabolism and water balance are maintained.

BENEFITS

- Enhances the early growth and greening in low temperatures in spring
- Ensures the good condition of turf and sports grasses during drought and heat stresses
- Reduces the negative effects caused by soil and irrigation water salinity

ADVANTAGES

- Absorbed within 24 hours
- Circulates systemically throughout the plant
- Active for 3 weeks
- A protective compound naturally occurring in plants

APPLICATIONS

CROP	TARGET	DOSE	APPLICATION TIMINGS	APPLICATION METHOD
Turf and sports grasses	Enhancing the early growth, ensuring the growth during unfavorable growth conditions and improving overwintering.	2–4 kg/ha	1 to 2 times early in spring, every 2 to 4 weeks during summer and once in autumn after the last cutting.	Spray plants evenly moist. Water amount: 200–400 l/ha.

- **Compatibility:** can be sprayed together with fungicides, insecticides and foliar fertilizers, except for formulations containing copper.
- The use of adjuvant/wetting agent in open field is recommended.
- The best conditions for spraying application are during windless and rainless weather, when the relative humidity is high.
- The maximum concentration of the spraying solution: 30 g/litre

CHARACTERISTICS

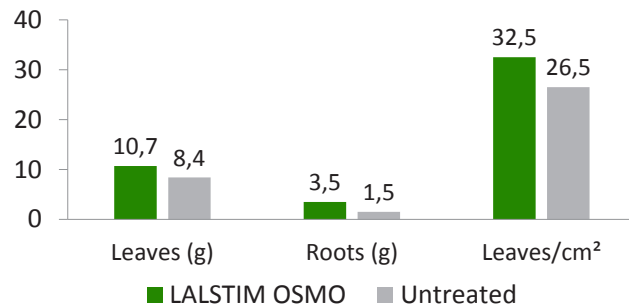
- **COMPOSITION:** purified and crystallized glycine betaine from plant origin (97 %)
- **FORMULATION:** wettable powder
- **PACKAGING:** 2 kg
- **STORAGE:** 24 months at room temperature, in an unopened package

RESULTS

Increasing the root mass and the weight of the foliage on turf grass

LALSTIM OSMO spraying repeated every 3 weeks during summer increased the root weight, the weight of the foliage and the density of turf grass exposed to drought stress (creeping bentgrass cv. 'Brighton').

The weight and density of the foliage and the root mass



Ensuring the uniform growth during drought stress

LALSTIM OSMO spraying decreased drought stress injuries on turf grass (creeping bentgrass cv. 'Brighton').

