

ChitosanHC/TURF Instructions

Chitosan Hydrochloride
contains Oligosaccharide (CAS No: 9012-76-4) + HCL
Degree of deacetylation (DDA) = 80-90%
Basic substance authorised by EU 563/2014 and EC No 1107/2009
Powder dissolved in water. Not for human consumption

- **Precautions and information:** see label and www.xp4g.com
- **Operation:** ChitosanHC works preventively and according to two channels to increase the strength of plants and soil organisms.
- **Direct action:** The first channel is the leaf of the plant that assimilates the product (systemic action) in all its cells in which enzymes and proteins are produced that strengthen the plant's strength and resistance. Due to the short and frequent mowing, this channel is not the most important for the grass of the greens.
- **Indirect action:** The second is the bottom of the green. The latter must be sufficiently permeable (importance of the "Top Dressing") to allow penetration of the product. Once in the soil, the product, which is a "sugar", is assimilated and processed by bacteria (Bacillus, Pseudomonas, Actinomycetes, Micorrhiza, Rhizobacteria,...). This transformation, frees enzymes and proteins that are transported to the roots, are absorbed and act as above. Other elements such as nitrogen (16%), carbon, hydrogen and oxygen are released and feed bacteria, other organisms and plants. The result is an increase in non-pathogenic organisms to the detriment of the pathogens, which reduces the biotic stress on the turf. Thanks to its polycationic character (free positive cations), chitosanHC positively influences the transport of all cations in the plant, for example calcium and other trace elements.
- **Other effects:** Chitosan also strengthens resistance to a-biotic stress in grass, i.e. better resistance to perspiration in hot weather (-25% perspiration), better resistance to frost and to the possible effects of sodium salt (Na) in water.
- **Dosage for golf courses:** preventive use
 - During the growing period: dissolve 100 g in 250-300 liters of water and spray on 1Ha. Repeat every 15 days.
 - In hot weather and conducive to the 'Dollar Spot', apply every week instead of every 15 days. (increased preventive effect)
 - During the rest of the world: dissolve 75 grams in 250-300 liters of water and spray on 1Ha. Repeat every 30 days when the weather permits. If the winter conditions are good for Fusarium, then, for 5 to 10 weeks, apply 75 grams/Ha per week.
 - The application is done on dry or wet grass, no additional water is needed after application. Do not apply for a heavy rainstorm.
 - Dissolve in a bucket in advance and then add it in the spray tank. Do not add if the pH in the tank is higher than 6! First apply the pH under 6, then add the ChitosanHC solution. (For example, use lemon or acetic acid to reduce pH)
- **Contact:**
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- The supplier is not responsible for the consequences of improper use.
- The product is not guaranteed for unspecified use.