



PRODUCT INFO
& DATASHEET

Amenity Sports & Turf Products

SICO DYNASTIM (liquid)

*Patented phosphite-thiosulphate complex for improved turf health and complementary disease suppression in fine turf
Plant stimulant*

1. PRODUCT DESCRIPTION & ADVANTAGES

A nutrient based unique plant stimulant produced by the reaction of ammonium and potassium phosphites with ammonium and potassium thiosulphates to create a unique and patented NPK 3-8-6 liquid with humic and fulvic acids. It is capable of working synergistically with conventional fungicides to produce superior disease control.

2. ADVANTAGES

- Unique product unlike any other and patented
- Proven for early season use to generate maximum rooting
- Full replicated trials data supporting product efficacy
- Start the growing season by boosting disease resistance
- The foundation of a disease control programme
- Compatible with fungicides and other foliar nutrients
- The ideal start to a drought-resistance strategy

3. APPLICATION

It can be used with absolute safety from first tiller formed on new seeds at low rates of application, and year round on established turf.

Maximum Single Application rate is **2.5 L/Ha**, but a programme of 4 applications throughout the growing season will produce best results: March; May; July and September/October.

Because of its efficiency of uptake **SICO DYNATIM** only requires 200L of water per hectare (you can use more but it isn't necessary)

4. PACKING

Packed in 2.5L (4 x 2.5L carton)



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A short Q&A – question & answer on SICO DYNASTIM:

1) What are phosphites?

Phosphites are salts formed by reactions with Phosphorous acid, and have the chemical formula PO_3 . They are different from Phosphates which are formed from Phosphoric acid and are PO_4 . Phosphates are considered as nutrient sources of Phosphorus (P) and are expressed as P_2O_5 equivalents under EU fertiliser regulations. Phosphites will try and oxidise to Phosphates if not stabilised in the formulation.

2) Are Phosphites fungicides?

NO: Phosphites will not affect disease *in vitro* (lab tests on diseases grown on agar plates). They will however create resistance to diseases when applied *in vivo* to growing plants; this effect is nutritionally derived but creates the same effect as if the plant had been treated with a fungicide. Typically following the application of **SICO DYNASTIM** alone (no fungicide tank-mix) in the absence of disease infections are later coming in and slower to progress. A good preventative treatment especially in poor growing conditions late autumn to early spring would be **SICO DYNASTIM** at 2.5L/Ha plus just 6L/Ha of a non-weatherstick chlorothalonil formulation.

3) What diseases will SICO DYNASTIM affect?

The two diseases against which the most measurable responses have been obtained are *Phytophthora* and *Pythium* species which are present in most Westeuropean soils and are responsible for damping off of seedlings after cold wet winters and late season leaf blight. There are contributory effects on the control of all turf diseases when **SICO DYNASTIM** is incorporated in a fungicide programme. Because of the mode of action of **SICO DYNASTIM** it can be used to re-generate healthy grasses after remedial cultivation to control black-layer, and will alleviate the foliar effects seen due to nematode patch. These effects are derived from **SICO DYNASTIM**'s unique ability to re-generate healthy root systems when they have been compromised by black-layer or nematodes. Typically a reduction of as much as 40% can be achieved in fungicide rates when fungicides are tank mixed with **SICO DYNASTIM**. It is particularly effective in combination with the non-weatherstick formulations of chlorothalonil. The weatherstick formulation firmly affixes the fungicide on the treated leaves, which are then prone to abrasion and mowing following applications in good growing conditions.

4) What will I see when I apply SICO DYNASTIM?

There is an immediate greening effect similar to a lower-rate nitrogen application, but the real benefits are in its prolonged activity in the sward where it will increase root mass and density and encourage tillering without generating excessive top growth. It is recorded by researchers as having a beneficial effect on soil micro-flora and fauna, as much as 6 weeks after application.

5) Mode of action?

SICO DYNASTIM is fully systemic and is taken up by the sward within two hours of application by mostly foliar uptake, but there is also some root uptake and it will not leach easily from shallow sandy soils. It begins to work within hours modifying transmission of nutrients and stimulating root growth. It is moderately affected by temperatures and should not be applied until average day temperatures are above 10°C. It will not scorch even if there are high day temperatures or low night temperatures after spraying.

6) Tank-mixing and penetrants or retention agents?

It is formulated with a surfactant system designed to support rapid foliar uptake that will also benefit any tank-mix partners like fungicides or insecticides. Discuss potential fungicide mixes with your distributor agronomist or experts to get maximum benefit from **SICO DYNASTIM**.