



# SYMBIO BLACK LAYER TREATMENT (BLT)



- ◆ Breaks down black layer, thatch and anaerobic conditions
- ◆ Converts locked up nutrient to available plant food
- ◆ Increases turf vigour, wear and stress resistance
- ◆ Promotes better root development and sward density
- ◆ Microbes are protected from u.v. light and chemicals

## FOR THE REMOVAL OF BLACK LAYER ON GRASS SPORTS PITCHES.

Black layer is caused by a toxic accumulation of ammonia, nitrite, metal salts and sulphides in anaerobic often thatchy, waterlogged, and compacted conditions due to lack of aeration, or poor construction or both.

**Symbio Black Layer Treatment** is a cocktail of beneficial soil bacteria and fungi specially selected for their ability to work at low oxygen levels to degrade black layer, anaerobic thatch and organic matter, releasing locked-up nutrients and converting them to nitrates and sulphates which are taken up by the plant. Where the soil remains anaerobic BLT encourages denitrification preventing the formation of noxious sulphide gas

This reduces the sulphurous, anaerobic conditions, which are toxic to the grass plant thereby increasing the health and vigour of the turf and improving rooting, wear and stress resistance.

BLT needs oxygen to continue working so frequent aeration is essential for the long-term activity of the product. One application can last up to six months.

If the black layer is caused by excessive thatch, Symbio Thatch Eater should be used to for a long-term solution to the problem. However, if the black layer is due to poor physical drainage, giving continuous waterlogged conditions, improving the physical drainage capacity of the rootzone is the long-term solution.

## APPLICATION and TIMING

Use in the growing season when the soil temperature is 5°C and above. N.B. BLT contains 8% nitrogen as nitrate and also releases locked-up nutrient so it is important to reduce other fertiliser input and avoid using late in the year as fusarium may utilise the released nutrient. To speed up black layer and thatch breakdown, erate turf frequently and limit the use of sulphur based products.

## HOW TO USE

Spike/hollow-tine turf and apply at 50 g per m<sup>2</sup> into but not below the black layer using a drop-spreader, overseeder or mixed with top-dressing through a rotary spreader. If the root-zone is dry at the time of application, irrigate for 5-10 minutes.



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