



BLACK LAYER TREATMENT



Blockade G1300

- ★ An advanced granular product for the treatment of Black Layer and to improve seed establishment
- ★ Improved activated carbon adsorbs poisonous gases
- ★ Contains a bio-stimulant to assist rooting into and through Black Layer profiles
- ★ Enzymatic system degrades the anaerobic materials in the Black Layer
- ★ Highly active due to the soil penetrant which moves the activated carbon into the Black Layer
- ★ Contains a porous ceramic soil amendment

Application rates

BLACK LAYER	Blockade G1300	Area Treated
Preventative treatment Up to 4 applications depending on the potential for Black Layer formation	20 kg	500 sq.m
Curative treatment Up to 2-3 applications in conjunction with mechanical aeration between early autumn and late spring	40 kg	500 sq.m
OVER-SEEDING	Blockade G1300	Area Treated
Treatment Apply in conjunction with normal over-seeding operations	10 kg	500 sq.m

Apply using conventional rotary spreaders.

Contains: Activated carbon, rooting bio-stimulant, soil penetrant, an enzymatic system and Profile[†] ceramic soil amendment

Pack size: 20kg box

Pack coverage: 250-500 sq.m (Black Layer treatment)
1,000 sq.m (Over-seeding treatment)

RT order code: 0422512/20

Use plant protection products safely. Always read the label and product information before use.

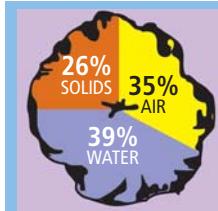
HOW BLOCKADE G1300 WORKS

Activated Carbon

A good activated carbon needs not only a highly developed surface area but also rapid access through a network of differing diameter pores. Most carbon materials have on average an internal surface area of 10-15 sq.m/gram, whereas the figure for activated carbon is about 1300 sq.m/gram. This new source of coconut shell acts as an ideal base material for producing activated carbon, having 95% of its internal surface area as micropores, ideal for the adsorption of small molecules. It is this activated carbon source that is found in **Blockade G1300**, providing an amazing 390 hectares of surface area per 20kg pack.

Formulation

The efficacy of **Blockade G1300** is due to its unique formulation and the manufacturing method which produces a fully built, homogenous end product. **Profile**, a ceramic soil amendment is used as a carrier, with each particle having 74% pore space with a high level of air space. This in its own right will help to restore aerobic conditions in the Black Layer.



THE PROFILE PARTICLE:

Profile blended with sand or soil increases the water and nutrient holding pores as well as increasing the air and drainage pores. It works continuously in the soil to solve and prevent problems associated with compaction, poor drainage and poor water and nutrient retention.

The **Profile** carries the soil penetrant, plant hormones and enzymatic system designed to degrade the Black Layer. The activated carbon, which has the same particle size as the **Profile** particles, is then mixed into the formulation. This ensures even incorporation of the activated carbon so providing a consistent spread during application. The large surface area enables the activated carbon to adsorb and render inactive the hydrogen sulphide gas in the Black Layer quickly and effectively. Methane gas is also adsorbed.

HOW TO USE BLOCKADE G1300 FOR BLACK LAYER

Blockade G1300 may be applied at any time of the year as a preventative or curative treatment, and to improve seed establishment when over-seeding. It can be used on all types of fine and coarse turf.

Blockade G1300 must be placed sub-surface within the Black Layer part of the turf profile. To do this effectively the turf may first be spiked or hollow tined to the correct depth. In combination with **Blockade G1300**, mechanical aeration of the turf profile plays an important role in Black Layer treatment.

Treatment procedure

1. Utilise all cultural control methods for Black Layer that are practicable e.g. promote good surface/sub-surface drainage, thatch control, prevent surface algae, avoid over-irrigation.
2. Ideally, carry out hollow tining procedure, ensuring a depth greater than the Black Layer in the turf profile is achieved.
3. Apply **Blockade G1300** at the recommended application rate.
4. Either leave the holes open or top-dress with a good quality top-dressing consistent with the root-zone.

HOW TO USE BLOCKADE G1300 FOR SEED ESTABLISHMENT

1. Vigorously scarify the area to be over-seeded.
2. Apply **Blockade G1300** at the recommended rate.
3. Carry out normal over-seeding operations.