



penergetic b

FAQ



What is penergetic b?

1. What are the effects of penergetic b?

penergetic b promotes the formation and regeneration of soil life (humus formation) as well as the formation of mycorrhizae. By activating soil life, soil fertility is lastingly improved and the soil structure (tillage) is optimized. In addition rotting is promoted (aerobic metabolic processes in the soil) which speeds up the rotting process.

2. How does penergetic b work?

It optimizes resources in the soil by regenerating and activating soil life.

It activates rotting processes and activates aerobic metabolic processes in the soil.

3. What is penergetic b used for?

The product is used on the soil in the field and grassland, but can also be used in domestic gardens.

4. Where should penergetic b NOT be used?

Animal house/barns/stables, organic waste bin, dung heaps and solid manure.

5. What is the difference between penergetic b and penergetic k?

penergetic b is used in the field, in the soil. By activating soil life, soil fertility is lastingly improved and the soil structure (tillage) is optimized.

penergetic k improves aerobic rotting and accelerates compost conversion. At the same time it can help to improve climate in the animal house/barns/stables by reducing the ammonia content.

6. Can penergetic b be combined with penergetic p?

Combining penergetic b and penergetic p optimizes the effects. penergetic b promotes essential nutrients from the clay-humus complexes in the soil being dissolved that are otherwise not available to the plants, e.g. phosphorus, and penergetic p promotes root growth and stimulates the plants' metabolism so that the increased availability of nutrients can be converted into increased productivity.

After applying penergetic b it is necessary to wait for at least 10 days before penergetic p is applied.

7. What can penergetic b be combined with?

penergetic b can be mixed with other agents such as herbicides, pesticides, chemical or biological substances (It should not be used together with fungicides.). It is possible to

improve the effectiveness of these agents in this way, therefore we recommend reducing spraying agents. It is necessary to monitor exactly to what extent these agents can be reduced, this should be carried out in several steps. However, the instructions from the manufacturers of the individual products must be adhered to.

8. Do mycorrhizae form as a result of penergetic b being used?

Various official studies have shown that using penergetic b helps existing mycorrhizae to grow. These form a symbiosis with the plant roots, expand their range by up to 200 times and supply essential nutrients (see mycorrhizae video): <http://www.youtube.com/watch?v=ArYM7BePpso>).

The importance of mycorrhizae for the plants is increasingly recognized in scientific research.

9. Does penergetic b promote balanced soil biology?

penergetic b improves the imbalance in the soil which is caused by intensive farming. In contrast to conventional spraying agents that are used to control pests, weeds etc., penergetic b promotes a balanced soil life. In this way pests are controlled naturally.

10. During drought periods, does penergetic b help to protect the soil?

penergetic b activates soil life, which helps the ground to absorb and store water. With extreme climatic conditions becoming ever more frequent, penergetic b helps to protect soil and plants.

11. Can penergetic b be mixed with fertilizers?

Yes. However, ideally it should not be used together with fungicides.

12. Can penergetic b be applied with glyphosate?

Yes. In this way the effectiveness of glyphosate can be improved. Close observation of the effects are required as well as possibly a reduction of the dosage.

13. Can penergetic b be used as a disinfectant?

No! penergetic b is not a disinfectant. However, penergetic b works with the existing bacteria and a balance between "good" and "bad" bacteria is restored over time.

14. Why are the dosages so small?

For example: 250 g bentonite contains approximately 5.96 billion billions of particles. Each individual particle has been treated with the Penergetic technology and has thus an additional active property.

When the compost is spread (with water, dry or mixed with other substances) these particles are distributed across the area and form a "mesh" that will then pass on the effects to its surroundings.

15. Is penergetic b in any way harmful to humans, animals or the environment?

penergetic b is completely harmless to humans, animals and the environment.

Carrier materials

16. Bentonite

Suitable for long-term activation. It can also be mixed with fertilizers and planting soil. In addition, bentonite is a mycorrhiza stimulant and helps to bind toxins.

- Please see the safety data sheet (SDS) on bentonite for more details.

17. Molasses

penergetic b molasses – for rapid effects, suitable for mixing with liquid fertilizers.

- Please see the safety data sheet (SDS) on molasses for more details.

18. Can penergetic b molasses and bentonite be combined?

Yes, we recommend a combined application. Molasses can be used as a rapid activator (starter) and bentonite for a long-term, sustainable activation of the soil.

- Please see the penergetic b application notes for more details.

Application of penergetic b

19. Field composting with penergetic b

Penergetic is also recommended for field composting. This means using penergetic b in fields in order to "compost" root or crop residues in the soil. Also to remedy the effects of overfertilization, the excess spreading of slurry, in the soil.

For crop residues or mulched green manure, the composting process can be optimized directly on the field with penergetic b. To promote rotting, spray penergetic b mixed with water on to the ground. Ideally this should be done before the material is plowed under or generally in autumn.

20. Why should penergetic b be sprayed on the fields in autumn?

In this way the rotting processes will be supported and nutrients will be stored better. Root residues are processed more easily and in this way the soil is being optimally prepared for the coming season. Soil activity in autumn is prolonged and returns earlier in spring.

penergetic b can also be applied to frozen ground. The effects will then start to take hold when the temperatures are on the rise.

21. Can penergetic b be applied dry?

Yes, but it should be mixed with a suitable material (sand, clay, earth etc.). This makes application easier.

22. Can penergetic b be poured over the plants?

Yes. It only needs to be ensured that penergetic p will subsequently not be applied for approximately 10 days.

Dosage / timeline

23. Dosages

- Please see the penergetic b application notes for more details.

24. Is it possible to use too much penergetic b or to apply it too frequently?

penergetic b and penergetic k are the only Penergetic product that cannot be used too frequently and that cannot be applied in too large amounts. The amounts and intervals of application are often defined by the costs. Larger doses of up to 4 or even 8 kg / ha for field treatment have yielded very good results.

25. What effects does this have?

Since the base material is a natural substance, there are no negative effects from using it. If larger dosages are used for field composting, then these dosages may be reduced over time.

Further product details

26. Which approvals have been granted?

Penergetic Int. AG is ISO 22000 certified and registered with the following organizations: FIBL, InfoXgen, Bio-austria, IFOAM.

27. What is the shelf life of penergetic b?

The powder lasts 5 years from the date of manufacture.

The molasses lasts 18 months from the date of manufacture.

28. Does the shelf life of other agents change if they contain penergetic b?

EM-products (effective microorganisms) must only be mixed with penergetic b just before they are applied. Otherwise the shelf life of other agents is not affected.

29. How should the product be stored?

Dry and on wood. Can be stored in glass or plastic containers without losing its efficacy. The products should not be stored on metal and placed as far as possible from electromagnetic sources.

Tips and tricks

30. How can the effects be enhanced?

- By using the AquaKat for irrigation water
- By using additional Penergetic products

Specialized products

31. Are there any other specialized products?

We offer further specific penergetic b products, please ask for details.