



## FAQ



## What is penergetic b?

### How does penergetic b work?

penergetic b promotes the development and regeneration of soil biology (humus formation) and mycorrhiza formation. By activating the soil life, soil fertility is sustainably improved and the soil structure (tilth) is optimized. In addition, the product promotes aerobic metabolic processes in the soil and thus accelerates the rotting process.

### What are the effects of penergetic b?

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

Additionally, it promotes rotting processes and/or activates aerobic metabolic processes in the soil.

### Where is penergetic b used?

penergetic b is used on agricultural land or pasture fields, also in the greenhouse or small gardens.

### Where should penergetic b NOT be used?

penergetic b must not be used in animal sheds, organic waste bin, compost, clamps and solid manure.

### What are the differences between penergetic b and k?

penergetic b is used on agricultural land or pasture fields. By activating the soil life, soil fertility is sustainably improved and the soil structure (tilth) is optimized.

penergetic k improves aerobic rotting processes and accelerates the materials' conversion to compost. It can also help improve the climate in animal sheds by reducing the ammonia content.

### Can penergetic b and penergetic p be combined?

By combining penergetic b and penergetic p, the effects of both products can be optimized: penergetic b helps in extracting nutrients, for example phosphorous, from the clay-humus complexes in the soil that otherwise would not be available to the plants.

penergetic p promotes root formation and metabolic processes of the plants so that the increased nutrient availability leads to increased productivity.

**Please note: at least 10 days (ideally 30 days) must pass after the application of penergetic b and before penergetic p is applied in the same area.**

## With which other products can penergetic b be combined?

penergetic b can be mixed with other products, chemical or organic substances, but must **NOT** be combined with fungicides. It is possible to achieve a higher degree of efficiency of these agents; therefore, we recommend reducing the amounts used. It is necessary to monitor the effects closely and the agents should be reduced in several stages.

However, the instructions from the manufacturers of the individual products must be adhered to.

## Does penergetic b help mycorrhizae formation?

Several official studies have shown that using penergetic b promotes the development of existing mycorrhizae. They form a symbiosis with the plants' roots, expand their reach up to 200-fold and supply vital nutrients.

The important role of mycorrhizae for plant development is increasingly underpinned by scientific research.

[Explanatory video about mycorrhizae](#)

## Does penergetic b promote a good balance between different organisms living in the soil?

penergetic b improves the imbalance in the soil caused by intensive agriculture. In contrast to conventional spraying agents that are aimed at controlling pests by eliminating them directly, the use of penergetic b promotes a good balance of the soil population. This leads to pests being controlled in a natural and sustainable fashion.

## Does penergetic b help protect plants during droughts?

penergetic b activates soil life, leading to improved water absorption and storage in the soil. With extreme climate events occurring more and more frequently, penergetic b helps protect the soil and the plant.

## Can penergetic b be mixed with fertilizers?

Yes.

## Can penergetic b be applied together with glyphosate?

Yes. The effectiveness of glyphosate can be improved in this way. It is necessary to monitor the situation closely and the application rate can possibly be reduced.

## Can penergetic b be used as a disinfectant?

No! penergetic b is not a disinfectant. However, the product works with existing bacteria, helping to reestablish a good balance between “good” and “bad” bacteria over time.

## How can such a small amount per hectare be sufficient?

For example: 250 g of bentonite contain approximately 5.96 quintillion of particles. Every single particle has been treated using the Penergetic technology and has thus gained an additional active property. When the product is applied (whether mixed with water, dry or with other substances), these particles are spread over an area and form a “grid”, which then emits its effects to its surroundings.

## Is penergetic b harmful to humans, animals or the environment?

No, penergetic b is completely harmless to humans, animals and the environment.

## Carrier materials

### Bentonite

Suitable for long-term activation. It can also be mixed with fertilizers.

In addition, bentonite is a mycorrhiza stimulant and helps to bind toxins.

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

### Sikron

Suitable for long-term activation. It can also be mixed with fertilizers. One of Sikron’s properties is that it remains suspended for longer.

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

### Molasses

Penergetic b molasses has rapid effects and is suitable for mixing with liquid fertilizers.

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

## Can penergetic b Molasses and Bentonite or Sikron be combined?

Yes, it is possible to combine the products. Molasses can be used as a rapid activator (starter) and bentonite or Sikron for a long-term, sustainable activation of the soil.

- Please see the penergetic b application and dosage for more details.

## Application of penergetic b

### Can penergetic b be used for field composting?

penergetic b is also recommended for field composting, in order to "compost" root or crop residues in the soil.

For crop residues or mulched green manure, the composting process can be optimized directly on the field with penergetic b.

### Why should penergetic b be applied in autumn?

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

### Can penergetic b be applied dry?

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

### Can penergetic b be poured/sprayed over the plants?

penergetic b should be applied directly on the soil. For perennial crops, penergetic b should be applied before vegetation occurs.

## Dosage / timeline

### Dosages

The application guidelines are based on an average value, the dosages might need to be adjusted according to local conditions (climate, soil etc.).

Please see the penergetic b application and dosage for more details.

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

penergetic b and penergetic k are the only products 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 composting have yielded exceptionally good results.

## What effects do high dosages have?

Since the base material is a natural substance, its application does not have any adverse effects. If higher doses are used in field composting, the desired effect is achieved more quickly. Please contact your sales partner to adjust the dosages.

## Further product details

### Which certifications have been awarded?

Penergetic Int. AG is ISO 9001 certified and registered with the following organizations: FIBL, InfoXgen, Bio Austria, IFOAM, OMRI.

### What is the shelf life of penergetic b?

The powder lasts 5 years from the date of manufacture.  
Molasses lasts 18 months from the date of manufacture.

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

Products containing bacteria must only be mixed with penergetic b just before they are applied because penergetic b activates the bacteria. Otherwise the shelf life of other products is not affected.

### 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 away from electromagnetic sources.

## Tips and tricks

### How can the effects be enhanced?

By using the AquaKat for irrigation water.  
In combination with other Penergetic products.

## Specialized products

### Penergetic b Potatoes

- Specialized product for potatoes, in combination with the specialized product penergetic p for potatoes.

Please see the penergetic b application and dosage for more details.