



Anwendungsbericht/User Application Report

Produkt/Product:

penergetic p Viticulture
art. nr. 4300

penergetic p Viticulture FZ
art. nr. 4301

penergetic b
art. nr. 3000

Anwender/User:

Interview with Bernhard Tafelmeier
who consults several penergetic user in the
Austrian wine industry.

Fachberater/Consultant:

Bernhard Tafelmeier
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Questions on Penergetic in viticulture answered by the Austrian Penergetic wine expert Bernhard Tafelmeier

What are currently the biggest challenges winemakers are facing?

The fluctuating temperatures and longer drought periods currently present the biggest challenge.

These periods of prolonged droughts can lead to wood regression.

Other concerns for the winemakers include fungal infestations, e.g. oidium, rotting grapes at the time of harvest (botrytis), chlorosis (lack of chlorophyll), esca, dwindling soil nutrients, pollution of the soil through toxins such as copper and associated regulations.

In your experience, what are the benefits of Penergetic in this context?

Penergetic b helps regenerate the soil; the environment of aerobic bacteria on the edaphon is activated, the fine roots in the vine area are strengthened, humus formation is sustainably stimulated and the nutrients in the soil become more easily available to the plants.

Penergetic p also promotes roots growth, enabling the roots to penetrate deeper layers, develop more fine roots and thus suffer less stress and become more resistant against droughts. The plant product, which is certified for organic agriculture, stimulates photosynthesis activity, having a positive effect on sugar storage and even preventing chlorosis. In addition, blockages of nutrient absorption can be prevented through root stimulation. This way, coulure (vines are not pollinated) can also be prevented, and the skin of the grape is strengthened, making the grapes more resistant and less susceptible to potential fungal infestations, such as powdery or downy mildew.

What were the most impressive results?

Users have noticed that the vines grow more evenly. The better structured permanent crops are also more robust.

AquaKat users recommend the product because it helps to control oidium when the AquaKat is attached to the sprayer.

The product is also used in tree nurseries; when the plants are repotted or planted it shows that the roots are stronger and more resistant, making them less susceptible to drought.

What is your reply when the wine growers compare Penergetic to bacteria, which many of them use already?

Penergetic b is ideally suited for a combined use with bacteria, since penergetic b sustainably activates the bacteria. They can also be easily applied together.

What about the price? Do customers think the product is cost-effective?

In order to neutralize the costs, the user would need to reduce their spraying agent concentration by 25-30%. The users often argue that the product should not cost more than the conventional spray treatment. Unfortunately, copper is way too cheap, considering how harmful it is to the soil.

The application costs little more than spraying a fungicide. However, in the long term, added value is certainly created since the soil is not polluted by the product. On the contrary: the soil is positively stimulated. Penergetic b promotes the development and regeneration of soil biology (humus formation) and mycorrhiza formation. By activating the soil biology, the 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. The benefits for a climate-friendly viticulture clearly outweigh any perceived cost issues.

What are the main points that are noted during application? Is the product easy to handle?

What can you mix the product with and how do you do it?

Penergetic products can be mixed with other products such as plant protectants, chemical or biological substances. It is possible to achieve a higher degree of efficiency with these agents; therefore, we recommend reducing the spraying agents incrementally.

Recommended application

Apply 2 kg of penergetic b for Soil per hectare in the vine-stock area in March. Starting with prebloom 200 ml penergetic p Wine and 400 ml penergetic p Wine FZ are mixed with the plant protectant. There should be a waiting period of at least 30 days between the application of penergetic b for soil and the treatment with penergetic p for plants. In conventional viticulture approx. 5-6 spray applications vs. 8-10 in organic viticulture; mix in with each spraying from first prebloom are made. in combination with AquaKat the conventional spraying agents should be reduced by 25 – 30%

After the grape harvest the soil is once again stimulated positively and prepared for the winter months. To this end, 0.5 kg of penergetic b is applied before soil work is carried out in late

