



Vitisol[®]

Natural protection against
heat stress and sunburn.



Ingredients	Clinoptilolite zeolite
Formula	WP - wettable powder
Organic farming	Suitable
CE certified	Yes
Package size	12 kg paper bag

 **lithos protect**
protecting plants.
empowering nature.

Vitisol[®] is a registered trademark of Lithos Crop Protect GmbH, Austria.



Natural protection against heat stress and sunburn.

Effectively protects against heat stress and sunburn, promotes plant health and ensures the quality of your fruits.

Vitisol is a natural biostimulant of mineral origin with a high proportion of clinoptilolite zeolite, which effectively protects against heat stress and sunburn. It forms a physical protective layer on plants that lowers the temperature on leaves and fruits and reflects harmful UV light while retaining natural sunlight for photosynthesis.

Vitisol supports the plants in fruit development, enables optimum CO₂ uptake and increases yield. Thanks to its excellent buffering effect, it binds water on the surface of fruits and leaves and slowly releases it again.

In viticulture, Vitisol helps to maintain the health of the grape skin, which improves wine quality. In fruit growing, the fruit skin is also protected, which increases the quality and shelf life of the fruit.

Facts & Advantages

- reduces heat stress and protects against sunburn
- reliably protects against harmful UV radiation
- cools the leaf and fruit surface effectively
- ensures a healthy and high yielding harvest
- 100 % natural product
- suitable for organic and biodynamic agriculture

Application

Correct use of Vitisol:

Fill the tank halfway with water. Slowly add the required amount of Vitisol via the induction sieve with agitator running, then top up with remaining water. Apply at intervals of 1-2 weeks.

Viticulture

Reduction of temperature on leaf and berry surface

6 kg Vitisol per ha in 400-800 litres of water
3 applications from BBCH 55 onwards - clusters enlarge

Protection against sunburn

6 kg Vitisol per ha in 100-200 litres of water
3 applications in the grape zone from BBCH 77 - beginning of bunch closure

Reduction of heat stress and temperature



Protection from sunburn

Pome fruits and stone fruits

Reduction of temperature on the leaf and fruit surface

6 kg Vitisol per ha in 400-800 litres of water
3 applications from BBCH 69 - end of flowering

Protection from sunburn

10 kg Vitisol per ha in 200-1000 litres of water
2 applications from BBCH 81 - beginning of fruit ripening

Reduction of heat stress and temperature



Protection from sunburn

Heat stress and sunburn not only jeopardise the health of your plants, but also the quality of your harvest. With Vitisol you can effectively protect your crops from these risks and at the same time ensure a healthy and high-yielding harvest.

The application of Vitisol can be customised depending on the needs of the plants. Renewal of the protective coating is recommended after heavy rainfall.

Approved for use in the following crops, among others: viticulture, pome fruits and stone fruits, citrus, berries, vegetables, cucurbits and hops

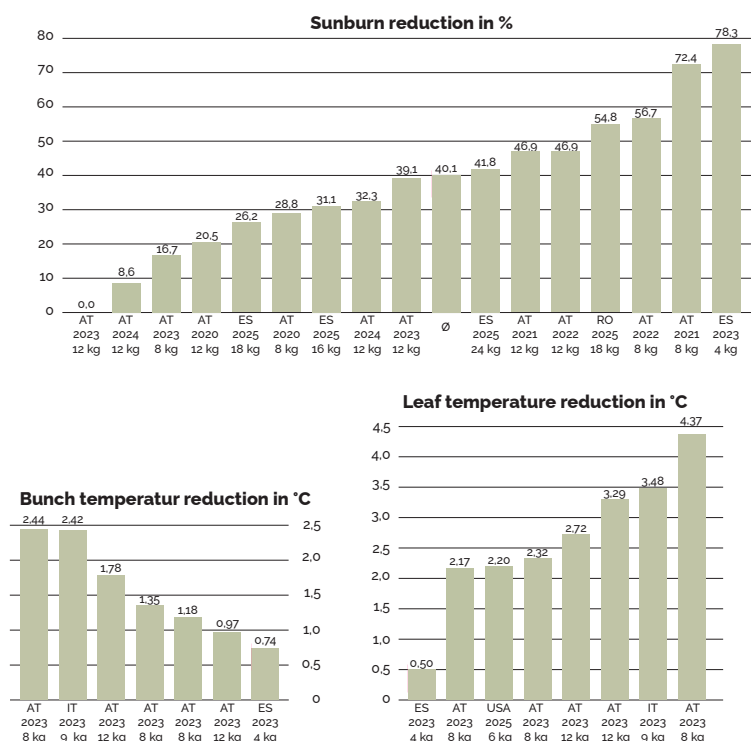
Further information:
at www.lithosprotect.at/en/vitisol
or simply scan here



Summary field trials

The aim is to demonstrate the effect of Vitisol against sunburn and on leaf and bunch temperature

Application information: 20 trials in Austria, Spain, Italy, Romania and USA
Trial period: 2020 - 2025
Varieties: Grapes - different varieties
Applicationen: Application using conventional spraying technology

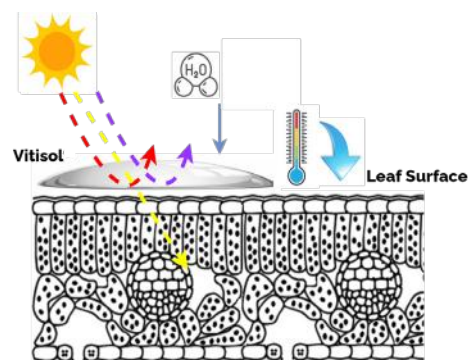


Conclusion

- Vitisol significantly reduced the incidence of sunburn on grapevines (Ø = 40.1 %)
- Vitisol significantly reduces leaf and bunch temperatures

Vitisol: Mode of Action

Vitisol offers exceptional coverage by forming a physical barrier with a uniform film. Its unique sizing and shaping enhances plant protection by allowing photosynthetically active radiation to penetrate while effectively blocking or reflecting harmful infrared and UV radiation. This selective filtering, demonstrated in several field trials, protects plants from sunburn and heat stress, potentially improving photosynthesis efficiency and overall plant health.



Action of Vitisol, on Leaf Surface:
schematic representation

We are Lithos Crop Protect

We naturally ensure vital plants. From research and development to sales, we dedicate ourselves daily to our goal of offering natural solutions of the highest quality for agriculture. Through innovative technologies and products, we set new standards for sustainable plant strengthening and natural plant protection. This makes us a pioneer and reliable partner for agriculture. We live and promote an appreciative approach to nature, the environment and people. Our aim is to use our nature-based products to ensure good yields, a secure food supply and, at the same time, thriving biodiversity in modern agriculture.



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