

PRODUCT DATA SHEET

Coated Seed Bio



The Bio-Coat – A smart, highly effective, eco-friendly shell

Both conventional and organic cultivation can benefit from the advantages that Coated Seed has to offer. In particular, the quick establishment and early development that Coated Seed Bio offers are especially attractive for organic operations since they ensure reliable weed suppression. Moreover, using Coated Seed Bio can help obtain greater total germination rates and improved ground coverage relative to uncoated seeds. The different layers of the seed covering protect the seed and seedling for the first few days against abiotic (non-living) and biotic (living) environmental factors. Coated seeds' rapid water uptake allows them to concentrate enough water around the seed to increase the likelihood of germination reliably, even after short downpours.



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In extreme locations (embankments or slopes), that are difficult or impossible to work on, preparatory soil cultivation measures can be dispensed with and sowing can be carried out thanks to the increased thousand grain weight. The advantages of Coated Seed therefore apply not only to single seeds, but also to seed mixtures, regardless of whether they are sown manually or by machine. Of course Coated Seed Bio is approved for organic farming due to the use of natural materials!

Naked seed vs. Coated Seed



Figure 1: Evaporation vs. water absorption

Benefits of Coated Seed Bio

- Vigorous stands for more reliable yield
- Efficient water use
- Boosted vitality
- Young plants more resilient
- Coated Seed remains securely in place – protection from drift
- Easy sowing and good seed distribution thanks to improved flow
- Optimal spreading properties
- Improved establishment, even on difficult sites
- Enhanced root formation for optimised nutrient supply to seedling
- Uniform seeds allow for precise storage
- Uses a plant strengthening complex to improve plant health
- Variable coating thicknesses make it possible to adjust thousand grain weight for mixtures



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Application

The product is ready for immediate use and can be treated like naked seeds. Please note that the higher thousand grain weight reduces the amount of seeds applied. However, a large part can be compensated by the better field emergence of Coated Seed. Therefore, only a slight increase in the sowing rate of 10-15 % is recommended.

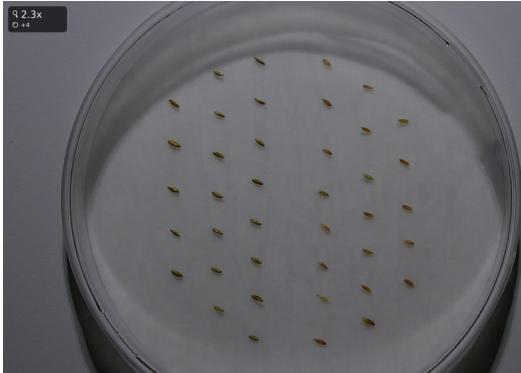


Figure 2: Day of sowing
Coated Seed Bio (left) and naked seed (right)



Figure 3: 21 days after sowing
Coated Seed Bio (left) and naked seed (right)

The above images show a direct comparison between Coated Seed Bio and uncoated seeds from the day of sowing. For the comparison, seeds from the same batch were planted on moist filter paper and observed on video for 21 days. The trial was held at a room temperature of 24°C with limited water availability, meaning that conditions were not optimal for germination. The Coated Seed variety has a visibly higher germination rate, due in part to its improved water efficiency.

Keep away from children and animals

Store in a cool, dry place

Any questions? Please feel free to contact us!

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