

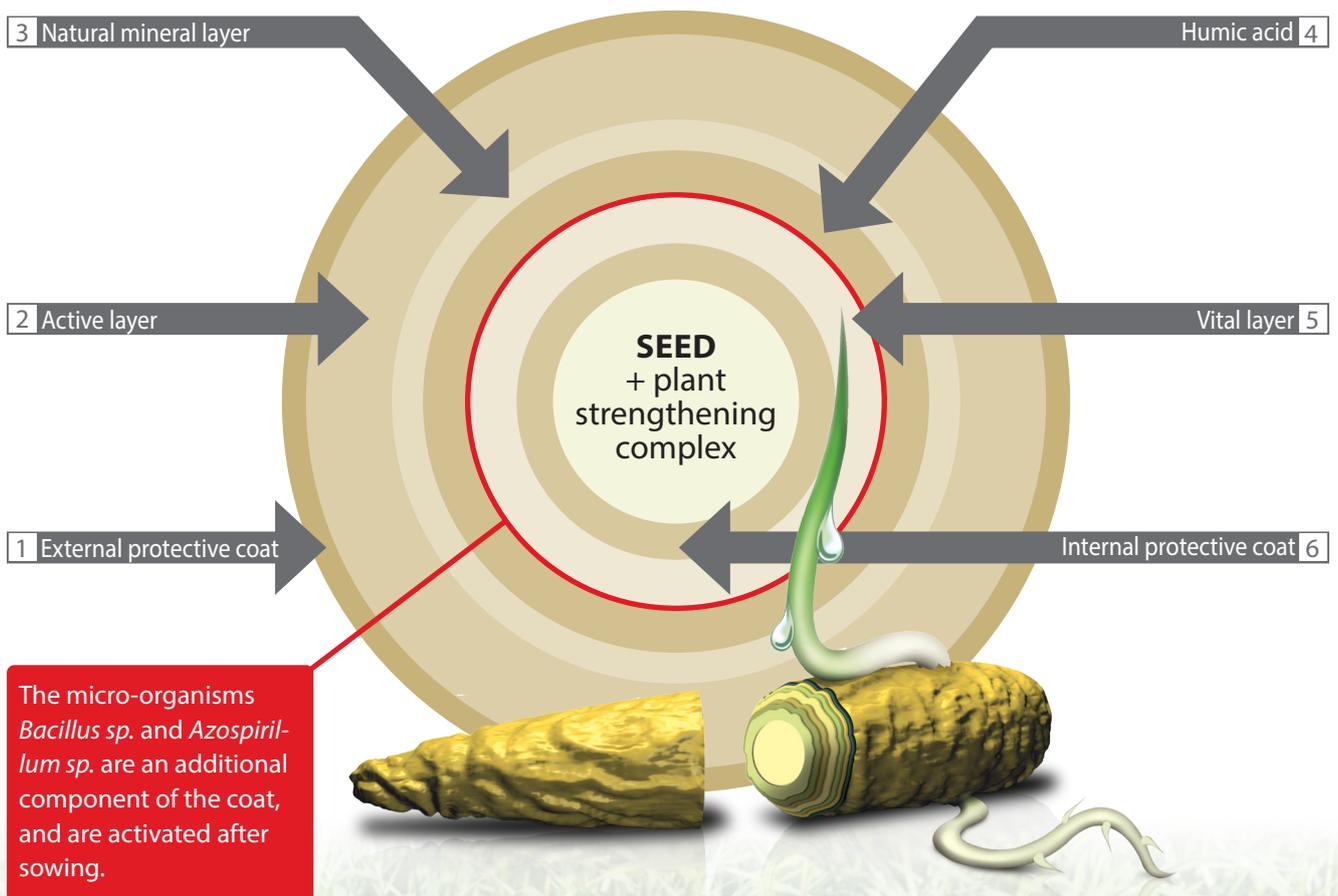
PRODUCT DATA SHEET



Coated Seed Vital

A smart, highly effective coating

The growth-promoting microorganisms in Coated Seed Vital are activated as soon as the seed comes into contact with an adequate amount of moisture. Therefore, the rhizosphere can be colonized as early as possible. This creates optimal conditions for the interaction of root and microbiome throughout the life of the plant. The bacteria can help to stimulate the immune system of the plant and the root hair formation and to improve the absorbability of essential nutrients and minerals. Seedlings strengthened in this way are also better armed against adverse environmental conditions/abiotic stress factors due to beneficial microbial processes. The use of Coated Seed Vital can minimise losses and a vital stand can establish itself. Furthermore, the seed coatings also contain essential substances that strengthen the plants. The coat thickness can be varied to meet crop-specific requirements, to adjust the thousand grain weight (TGW) of seed mixtures, or to encourage an even distribution when sowing.



Coated Seed Vital



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. 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.

Naked seed vs. Coated Seed Vital

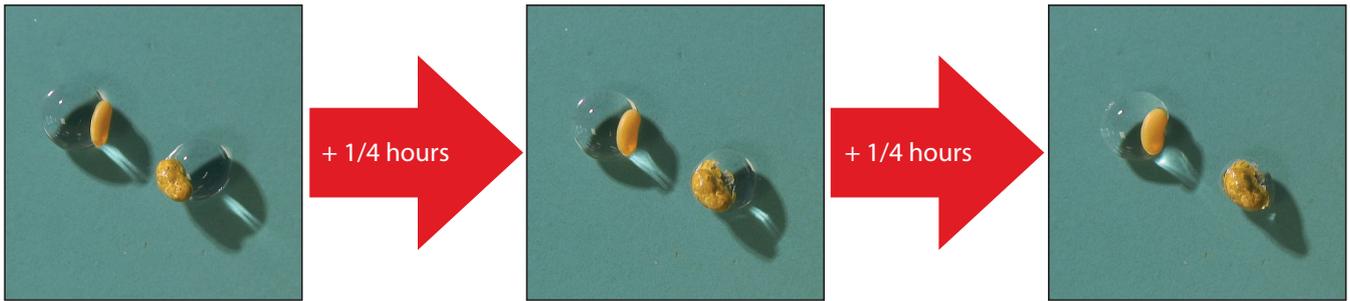


Figure 1: Evaporation vs. water absorption

Benefits of Coated Seed Vital

- In addition to its classic ingredients, Coated Seed Vital contains a mixture of effective strains of *Bacillus sp.* and *Azospirillum sp.*
- Best development of young plants through an optimal supply of nutrients to the seedling
- Easy sowing and even distribution pattern thanks to improved flow
- Spores are very durable and can grow even after long storage times
- Established plants also benefit by *Bacillus sp.* and the addition of *Azospirillum sp.*
- More efficient nutrient use thanks to a more pronounced root system
- The plant strengthening complex promotes health and reinforces the resilience of young plants
- The Coated Seed remains securely in place – protection from drift
- Enhanced visibility simplifies visual control
- Easier reseeding since the smooth surface of the Coated Seed allows it to slide down to the ground
- Higher emergence rates thanks to better soil contact
- Uniform seeds allow for precise storage



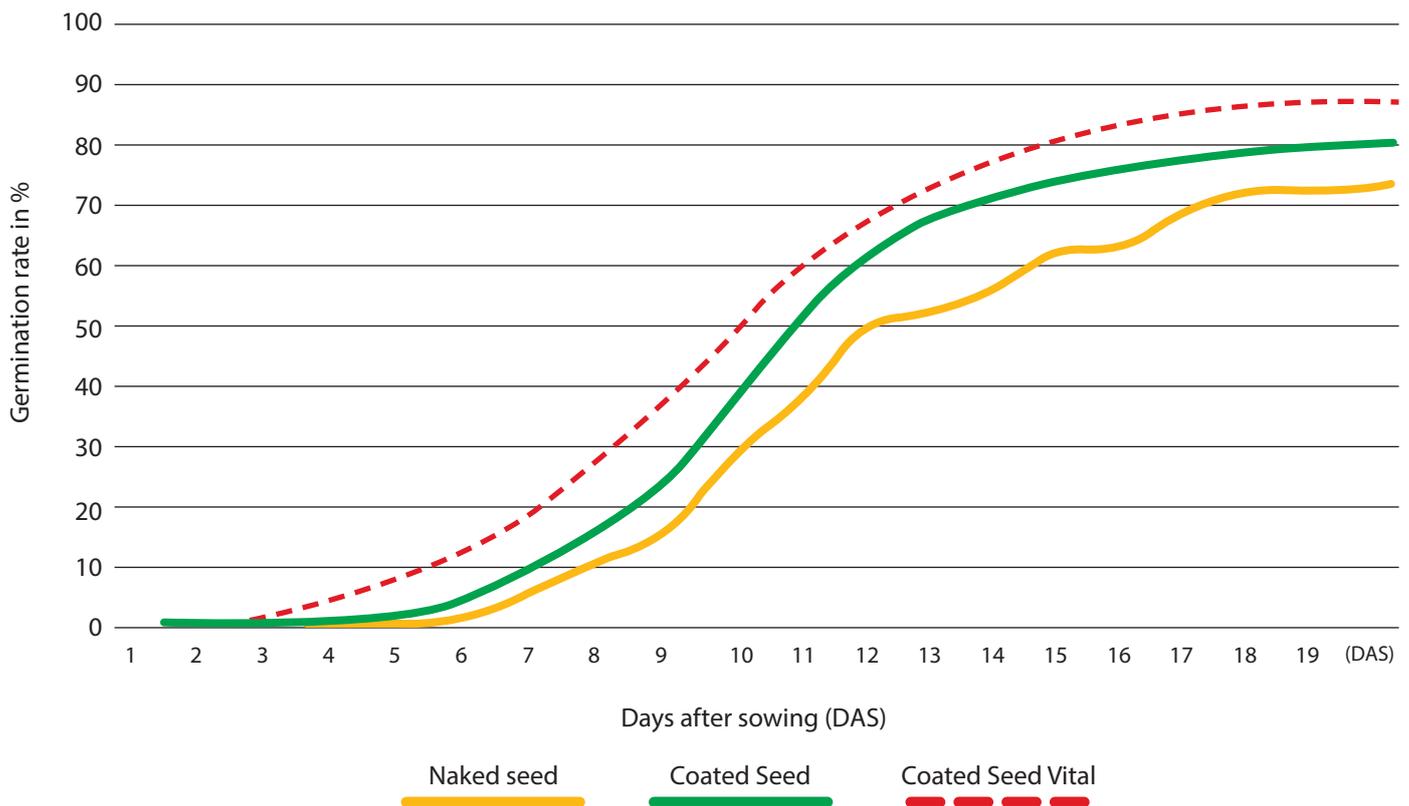
Coated Seed Vital



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.

Average germination capacity of a grass mixture 20 days after sowing (DAS)



The graph above shows the germination process of a lawn mixture. The data come from trials performed at different times, which are simplified and summarised here. The Coated Seed (green) clearly facilitates faster germination.

The additives in Coated Seed Vital can offer further advantages, with resultant plants that are healthier and hardier. The seedlings can reliably take hold thanks to higher emergence rates and improved competitiveness.

Keep away from children and animals

Store in a cool, dry place

Any questions? Please feel free to contact us!

+49 2151 - 44 17 0

info@freudenberger.net