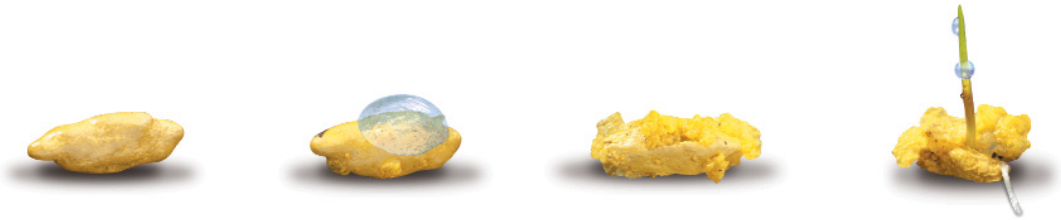
WASP 7
WATER ABSORBING SEED PROCESS



Beside light, temperature and oxygen, moisture is the most important factor for the process of germination. Water is not only the cause of the imbibition and the growth of the seedling; it is also an information agent and the element of life. There would be no germination, no growth and no yields without water. The idea to optimise the water input for the seed in the very first germination stage can be realised with a new formulation of the coated seed. The treated seed soaks a hundred fold more water than the standard coated seed and makes it available for the young seedling. Along with the optimised water availability, an optimised nutrition uptake is given to the seed. WASP coated seeds have the ability to optimise fertiliser applications and to overcome technical problems in the sowing methods. New irrigation efficiency is needed in the agricultural sector and this new seed formulation is a huge step in the right direction. The absorber coat, has a very important function in the protecting the seed.

Especially under extreme water stress conditions the absorber coat helps the seed to overcome the dryness. Naked seed would germinate, once there is enough water available, but it would dry out and die after the germination, because there is no possibility to keep the water close to the seed. The WASP coated seed will germinate under dry conditions and will be able to keep the germinated seedling alive, because of the ability of holding water around the seed coat. The coating was added with an absorber, which is able to make even more water available for the seed. With this innovation of coated seeds, the absorbent character of the coat could be multiplied. Even after germination, the absorber keeps moisture available for the young seedling and for the growth of the young plant. With more water and nutrients available to the WASP coated seed, a far healthier and vigorous plant is created compared to coated clover or a naked seed.

Advantages of WASP coated seed

Every single seed is coated with non-toxic ingredients consisting of 7 different layers with following nutritious elements: N-P-K-Ca-Fe-Mn-Cu-B

New technology WASP (Water Absorbing Seed Process)

Additionally the seed coat includes a water absorber. The absorber is added to every seed in this last coating process.

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Advantages of the WASP coated seed - Moregrass Coated Seed technology

- Ability of soaking at least a hundred times more water compared to a non coated seed
- Quicker germination and establishment of the seedling
- Higher leaf and deeper root growth
- Ability to overcome water stress conditions (dryness)
- Constant germination and growth
- Easier sowing compared to naked seed (enhanced fluidity by manual or mechanical application)
- Better control of sowing rate and sowing density by the significant colour of the coated seed
- Bird-resistant – Non toxic
- The higher seed weight allows the coated seed to find its way to the ground even when it is sown into an existing sward
- Quicker and better soil contact, caused by a higher weight of the coated clover seed, guarantees and ensures the water economy of the seed and the young plant
- From the very start the seed and the following seedling are supplied with nutritious elements to guarantee a quick and secure development of the plant, which causes a quicker and deeper rooting of the plant
- Coated seeds guarantee no losses or damage caused by fungal diseases

Germination phases:

1. soaking water
2. imbibition
(Absorption of fluid by a solid that results in swelling)
3. enzymatic activity
4. degradation of reserve material
5. opening of testa
6. seedling root appears
7. cotyledon appears
8. photosynthesis
9. seedling growth

Plant development with WASP

Plant development without WASP

Use: WASP coated seed for quicker germination, more vigorous growth and deeper rooting.