



**For more  
information,  
please  
contact:**

**Germain's Seed Technology**  
European Horticulture and  
Sugar Beet Production Facility  
Hansa Road, Hardwick Industrial  
Estate,  
King's Lynn, Norfolk, PE30 4LG, UK

European Commercial Manager  
**T:** +44 (0) 1553 774 012  
**E:** [info@germain's.com](mailto:info@germain's.com)

[germain's.com](http://germain's.com)



**germain's**  
seed technology

We Maximise Nature's Potential™

Over the last 150 years, Germain's Seed Technology has become one of the world's largest independent seed technology companies.

Providing industry-leading innovative seed technology, using the latest biological tools and techniques, Germain's provide value added solutions to maximise the natural potential of seed in the field.

Our Research and Development Team collaborates with our customers to develop innovative, value-added products that are solutions to real problems encountered by growers, dealers and seed production companies.

## Seed technologies

Germain's specialises in technologies that maximise the value of your seed. All our seed technologies have unique properties that allow you to work with clean, healthy seed that address the challenges crops can face in adverse conditions.

[germain's.com](http://germain's.com)





Priming is a process of regulating the germination process by managing the temperature and seed moisture content.

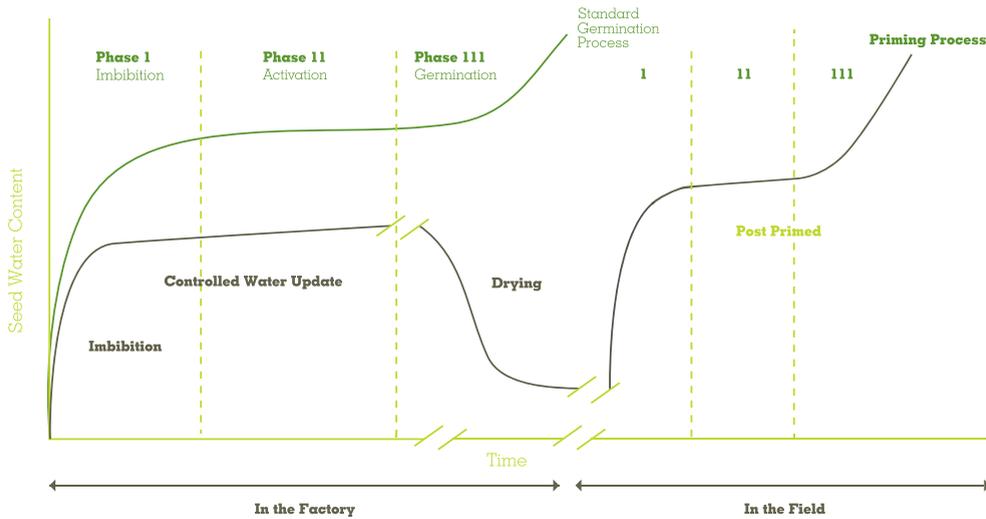
The seed is taken through the first biochemical processes within the initial stages of germination. The priming process regulates the seed's temperature and moisture content, bringing the seed closer to the point of germination.



The process involves advancing the seeds to an equal stage of the germination process, to enable uniform emergence when planted.

**Benefits:**

- ✓ Faster speed of emergence
- ✓ Improves uniformity to optimise harvesting efficiency
- ✓ Increases vigour for fast and strong plant development
- ✓ Increases yield potential
- ✓ Enables seed to overcome abiotic stresses due to sub-optimal agro-climatic conditions for germination, for example in cold and wet conditions



**The priming process**

The green line corresponds to a standard germination process: during the phase of imbibitions (Phase I), under proper temperature and moisture, seed water intake increases.

During the activation phase (Phase II), physiological mechanisms are triggered that will eventually start the germination in Phase III (hypocotyls and roots emerge from the seed).

During the priming, the seed is brought to the end of Phase II and then dried, before the root emerges from the seed.

Once conditions (temperature and moisture) are appropriate in the field, the process starts again in a much shorter time.



Pelleting is a process whereby material is built up around the seed to produce complex seed coatings to make the seed uniform and thus easier to use.

**Benefits:**

- ✓ Increases the size of smaller, finer seeds to aid precision drilling
- ✓ Produces smoother, rounder, more uniform seed
- ✓ Regulates water uptake
- ✓ Limits direct contact between seed and chemical, minimising any potential phytotoxic effects



Filmcoating is the process of applying a thin polymer film to the surface of the pellet.

**Benefits:**

- ✓ Acts as a carrier of fungicides, insecticides and other additives
- ✓ Reduces chemical spraying in the field, providing environmental, operational and economic advantages
- ✓ Prolongs pest and disease protection
- ✓ Colour allows easier identification in the field
- ✓ Reduces dust

