

# Flowers and ornamental crops

## 1. PLANT GROWING

### SEED PROPAGATION

After properly disinfecting the seeds, prepare them so that they can germinate within the shortest time possible (pre-germination treatments with Gibrelin + Stimolante 66f to stop dormancy, Soaking, Hardening, etc.).

### PROPAGATION BY CUTTING

Prepare hardwood cuttings by selecting the from the mid portion of vigorous vegetative branches. To prepare the cuttings, slice off the top just above a bud and the base just below a bud. Make sure the stem segment contains at least 3-4 buds. The cutting surface (in either hardwood or herbaceous cuttings) should be treated with rooting hormone, choosing among four formulations: **Germon Bewurzelungspuder for herbaceous cuttings**, **Germon Bewurzelungspuder for hardwood cuttings**, **Germon L for hardwood cuttings**, **Germon E for herbaceous cuttings**.

### PLANTING

Place the cutting or seed in suitable boxes containing previously disinfected and fertilized compost (compost could be prepared by adding 1.5 kg of Sprühdünger type 9 (NPK ratio 15-28-20 + Fe + microelements) per cubic metre of compost to the substrate.

On the first watering, apply **2 l/1000 m<sup>2</sup> of Alga Special** and on development of the first true leaves, fertilization should begin:

Radical application

<b>Sprühdünger type 9</b> .....	<b>20 g/hl</b>	three-four times per week
<b>+ Gerhumin</b> .....	<b>30-50 ml/hl</b>	once a week
<b>+ Gerfos-K</b> .....	<b>50 ml/hl</b>	every 10 days

Foliar application

<b>Sprühdünger type 9</b> .....	<b>30 g/hl</b>	twice a week
<b>+ Stimolante 66f</b> .....	<b>10 ml/hl</b>	" " " "
<b>+ Alga-Special</b> .....	<b>50-75 ml/hl</b>	" " " "

It is advisable to replace Sprühdünger type 9 with type 5 (NPK index 18-12-26 + Fe + microelements) on the last treatments, as this is richer in potassium and helps the seedlings better withstand the forthcoming transplant.

## 2. GENERAL CULTIVATION GUIDELINES

PERIOD	PRODUCT	DOSE	Application	NOTES
SOON AFTER TRANSPLANTING	<b>Stimolante 66f</b>	<b>20 ml/hl</b>	Foliar application	Apply mixed with fertilizers or together with pesticide treatments, after any water or nutritional stress and in any case at least once every 5-7 days
	<b>Alga Special</b>	<b>2 l/1000 m<sup>2</sup></b>	Radical application	
FROM THE EMERGENCE OF THE FIRST LEAVES	<b>Alga Special + Gerfos-K</b>	<b>150 ml/hl 50 ml/hl</b>	Foliar application	Repeat every 15-20 days
BEGINNING OF CYCLE AND LEAFY CROPS	<b>Alga Special Sprühdünger type 2</b>	<b>150 ml/hl 50 g/hl</b>	Foliar application	
BEGINNING, MID CYCLE AND CROPS REQUIRING HIGH AMOUNTS OF PHOSPHOROUS	<b>Alga Special Sprühdünger type 9</b>	<b>150 ml/hl 50 g/hl</b>		
END OF CYCLE, FLOWERING PLANTS AND/OR PLANTS WITH HIGH POTASSIUM REQUIREMENTS	<b>Alga Special Sprühdünger type 5</b>	<b>150 ml/hl 50 g/hl</b>		
NURSERY PLANTS: (soon after the emergence of the first small leaves).	<b>Stimolante 66f + Gerfos-K</b>	<b>20 ml/hl 50 ml/hl</b>	Foliar application	Improves the formation of roots



I- 16013 Campo Ligure (GE) Via Vallecaldà, 33  
Tel.: +39 010 920 395 Fax : +39 010 921 400  
e-mail: info@lgobbi.it http://www.lgobbi.it

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**l. gobbi** s.r.l.

Conc. E. Gerlach GmbH - Germania



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## ROOTING OF CUTTINGS

### PRODUCT USAGE GUIDELINES POWDERED ROOTING HORMONES GERMON BEWURZELUNGSPUDER

The base of the cutting should be moist to allow rooting to adhere, therefore if the cut is not fresh, dip the base into water. Dip the moist base into rooting powder for no more than 1 cm in length.

Shake off any excess powder.

Cuttings can now be inserted into the substrate (compost or other) to root.

Watering is also important at this stage.

Ideally one should sprinkle a flat surface (i.e. the bottom of a bowl) with powder, then place a bunch of cuttings (with their base levelled) on it and turn it. Spread just the amount of product required for the job, to avoid wasting it. Do not dip cuttings directly into the container to prevent any remaining powder from rapidly deteriorating due to the contact with moisture. If the container is kept sealed and in a cool place, powder will preserve for a long time.

After the treatment with **Germon Bewurzelungspuder** rooting hormone, shake off any excess powder from the bark.

It is recommended that a fungicide should be used prior to the rooting treatment, to prevent rotting.

The cutting is now ready to be set into a suitable rooting substrate, making sure not to take away the powder applied to the cut.

In any case, the soil should drain well and be firmly pressed around the cutting before watering.

**Warning:** If the stem already shows some small roots, the use of rooting products is not recommended as these may damage the newly formed tissue, slowing down the rooting process.

As the first small leaves emerge, rooting can be further stimulated also by foliar application of the product **Stimolante 66f**. This stimulator improves the translocation of photosynthates from the leaves to the cuttings base: this promotes the formation of large numbers of stronger roots, which are the best approach towards obtaining healthy and productive seedlings.

## ROOTING LIQUIDS GERMON BEWURZELUNGSFLUID

Prepare the solution according to instructions.

Dip the base into the solution for approx. 1 cm. in length, and leave it for the necessary time.

Cuttings can now be inserted into the substrate (compost or other) to root

Watering is also important at this stage.

Hardwood cuttings: dilute 20 ml of **Germon-L Bewurzelungsfluid** in a litre of water.

Herbaceous cuttings: dilute 2-5 ml of **Germon-E Bewurzelungsfluid** in a litre of water.

Dip the base of the cuttings in the solution for 1-2 cm in length and leave in the solution as long as it is required by the various species. Generally hardwood cuttings require shorter dipping times (half an hour, an hour) whereas herbaceous cuttings require longer dipping times (even 12-24 hours), as the active principle should be less concentrated in order not to damage their delicate tissues.

Do not use the same solution for more than one treatment. After treatment, cuttings should be rinsed with water and planted in the shortest time possible.

It is recommended that a fungicide should be used prior to the rooting treatment, to prevent rotting.

The cutting is now ready to be set into a suitable rooting substrate.

In any case, the soil should drain well and be firmly pressed around the cutting before watering.

**Warning:** If the stem already shows some small roots, the use of rooting products is not recommended as these may damage the newly formed tissue, slowing down the rooting process.

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