

## **Potato Seed Dressing & Leaf Spray**

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### **Preliminaries**

Seed Dressing and Leaf Spray with Fla-ONE® technology is intended to

1. improve rooting in terms of size and mass of the roots
2. activate the plants defence system
3. increase the ability of the plants to overcome stress

We propose seed treatment as well as later foliar spray applications – mainly in addition to the standard treatment regime or also as stand-alone applications after definition and clarification of goals (e.g. organic with copper reduction program).

For Potato Seed Dressing we defined 2 main application methods:

#### **1. Seed treatment before planting:**

Application rate:                    1) 0,5l in 10l water or  
   2) in combination with fungicide treatment 2,50% (0,250l/10l water)  
   only in combination with acidic treatments

Treatment before planting in the ULV process

Stage:                                    00 (tuber dormant, not sprouted)  
Max. number of treatments:    1

The product is diluted in 10l water in the ULV process sprayed (Ultra low volume (ULV); Seed dressing on the roller conveyor just before sowing). The application rate is 1-2 liters of dressing solution /ton of potatoes. The product must be even distributed on the whole surface of the tubers.

residual humidity:                nearly dry or dry off easily within 30 minutes  
planting:                                ideal within 24 hours after dressing

Roller conveyors are suitable for the ULV process, which enable the potatoes to be turned in a single layer, but not ordinary conveyor belts.

Care must be taken to ensure an even, single-layer potato stream. Roller conveyors that are used for treating seedlings should only be used for this and not for other purposes! The sprayer is mounted on the roller conveyor and must be set precisely. To avoid mechanical stress on the seedlings, do not throw sacks or fall.

## 2. Seed dressing during planting

Application rate: 1) 1l in 100l water or  
2) in combination with fungicide treatment 0,25-0,50%  
(0,25 – 0,5l/100l water) only in combination with acidic treatments

Treatment during planting

Stage: 00 (tuber dormant, not sprouted)  
Max. number of treatments: 1

Application  
Tuber dressing 50-100 litres of dressing solution/hectare.

Tuber and furrow dressing: 150-200 litres of dressing solution/hectare.

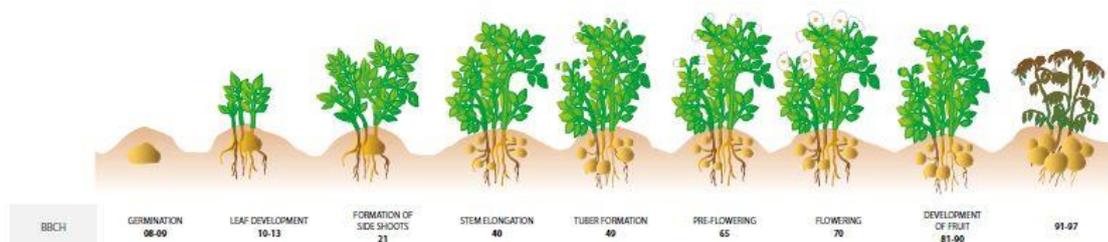
residual humidity: when controlled before closing in the soil, the potatoes should be dripping wet

## 3. Leaf Spray

Whilst plant protection measures in potatoes mostly start when alert is given due to weather conditions or if occurrence of infections is visible, the Fla-ONE® treatment should start earlier.

Best timing is:

- first treatment after 90% of the seed has emerged and started Photosynthesis  
0,25% concentration 100-120 liters per hectare = 200-250 ml /ha (depending on spraying equipment)
- second treatment 2 weeks after first treatment  
0,25% concentration 125-150 liters per hectare = 300-375 ml /ha (depending on spraying equipment)



The remaining spraying (normally 6-7 treatments of fungicides and fertilizing) should be accompanied with 500 – 750 ml/ha Fla-ONE® Plus in high biotic pressure situation.

In mainly abiotic stress conditions like (heat, drought, wind, humidity,..), the applications with Fla-ONE® Plus should be at least biweekly.

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