

BOHEMIA GARDENS Die Berggärtnerei



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Prophylaxis when pruning Japanese maple

Preventive measures against Verticillium dahliae, among others

Many maple species such as *Acer japonicum* i.S., *Acer palmatum* L.S., *Acer aconitifolium* are often threatened by fungi attacks, e.g. by the wilt fungus *Verticillium*.

This soil-borne pest leads to the wilting of shoots and dying of branches right to the core wood, often even to the loss of the complete plant.

The only effective method for infested plants is early pruning of the infested shoots into the healthy wood. All cutting tools must be disinfected before usage. Cut clean and smooth above an eye. Consistent frequent spraying of the complete plant with PinusFloris in connection with the specific usage of a complete fertilizer and regular watering has shown to be very helpful. Hardly any infestation could be observed.

However, it is even better to spray healthy plants regularly with undiluted PinusFloris once a week, provided they are optimally fertilized and watered.

Out of altogether 23 maple plants in various locations 9 were provided with PinusFloris right from the beginning. All plants stayed healthy and got well through stress situations caused by heat and direct sunlight.

Despite a good basic supply, the other 14 maples showed fungal infestation, which led to a total loss in two cases. 4 maples were strongly resected and are stable under the application of PinusFloris. 5 plants were neither treated nor infested (one heat induced damage, the plant is clearly recovering). The rest of the maples were only mildly infested and cut back without any further application of PinusFloris.

Kind regards

Volkhard Schultz-Jochens, 29.07.2010

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Transplanting Rhododendron repens

6 *Rhododendron repens* i.S. and a *Kalmia latifolia* were to be transplanted in a garden in Belm in May 2009, as these plants showed poor growth and were additionally infested with whiteflies and lice. When taking the plants out, we found that all of them had been planted too deep in clay soil without adding sufficient amounts of peat.

The plants were cut back to a height of about 40cm, the planting hole for each plant was enriched with about 50 litres of peat, 3 shovels of Bioriko and 30 g of Floranid, which were blended with the soil. The plants were planted in shallow holes in this substrate in such a way that the upper part of the root together with the root ball stuck out of the soil for about 2 – 4 cm. After that, we watered with plenty of water.

After 3 weeks the *Rhododendrons* showed strong leaf growth. As expected, the *Kalmia* was more hesitant. From that point on, the *Kalmia* and 3 *Rhododendrons* were sprayed every second day with PinusFloris (diluted with water at a ratio of 1 to 1). It was clearly noticeable that, from that point on, the *Kalmia* produced stronger shoots and the leaves became darker, too.

The 3 *Rhododendrons*, which had been treated with PinusFloris, were found to show faster growth and very strong shoots approximately 2 – 3 weeks after the initial spraying, whereas the other plants showed satisfactory growth, but by far not as strong as the others. Also, the leaf colouring was lighter at the very beginning and not so shiny. At the beginning of August, 2 of the non-treated 3 plants showed a light infestation with whitefly, whereupon all three were successfully treated with Spruzid. *Kalmia* and the other 3 *Rhododendrons* remained untreated as well as pest-free.

Length of treatment with PinusFloris: 14 days, every two days once in the morning; the whole plant thoroughly sprayed from all sides.

After that, 3 weeks with two sprayings each week. Then treatment was discontinued.

Kind regards

Volkhard Schultz-Jochens, 06.07.2010

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Botrytis infested tomatoes

In 2008, tomatoes in a plastic greenhouse were infested with grey old rot/Botrytis and could not be saved any more.

In April 2009, the plastic greenhouse was completely sprayed with PinusFloris from the inside. The soil was improved by adding 10 litres of compost per square metre and fertilized with organic-mineral fertilizer (60 grams per square metre) and limed. After that, the floor was sprayed with undiluted PinusFloris and covered with landscaping fleece. The fleece was cut up at a plant distance of 80 cm (beef tomato) and 60 cm (trusses of tomatoes) and planted.

After a very short while only, the plants were characterized by rapid growth and strong and healthy leaves. As a supporting measure, the tomato plants were sprayed once a week with PinusFloris diluted with water in a ratio of 1:1. There was no sign of deficiencies or pests until the end of August, then, despite ventilation, a slight infestation of mildew occurred. The spraying frequency was increased to two times a week and PinusFloris was not diluted any more.

As there was no more infestation, the infested leaves were removed and spraying was reduced to once a week with undiluted PinusFloris as from the middle of September. The yield was more than satisfactory and very healthy.

Kind regards

Volkhard Schultz-Jochens, 22.11.2009

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Application of Wilms pine heartwood extract against fungal pathogens on woody plants and perennials

1. Spraying against powdery mildew on Phlox paniculata Pax and Düsterlohe, Aster dumosus Prof A. Kippenberg, Aster novae angliae Purple Dome, Monarda in varieties. All plants had already been more or less mildew-infested and, depending on weather influences, were sprayed intensively with Kieferngold every 1 – 2 days, a total of 6 sprayings. The infestation on Phlox and Aster stopped after the fourth and fifth spraying respectively; the leaves took on a darker colour and died. The fungus survived on Monarda till after the sixth spraying. Then all plants had their leaves completely cut off. Weather permitting, the new shoots were sprayed with undiluted spray early in the morning and in the evening right from the start. Phlox and Aster Purple Dome continued to grow free of mildew, whereas Monarda showed a slight infestation after approximately 20 – 25 cm growth. This stagnated after further treatment and did not impair the overall picture of the plant. Aster Kippenberg was infested again approximately 7 – 8 days after new growth.
2. Spraying against powdery mildew on Rosa The Fairy. In one garden the roses were sprayed after they had already been infested, after the fourth to fifth spraying the leaves changed colour and fell off. The plants were cut back and the leaves completely removed. The new growth, which had been treated prophylactically, appeared to be free of mildew and kept healthy. In 2 other gardens prophylactic spraying took place shortly after budding. The Fairy kept free of fungi, and so did Schneeflocke, New Dawn, Bonica, Friesia and Swany likewise. Only Fiona showed slight traces of mildew.
3. Spraying against powdery mildew on an oak bonsai tree (Outdoor). The infested foliage was completely removed by hand. The plant was given liquid fertiliser and the new growth was regularly sprayed. Even when the spraying was discontinued, there was no new infestation.
4. Sooty mould on diverse woody plants. In any case the greenfly infestation had to be treated. Leaves and infestation were removed from infested twigs and branches. No further infestation appeared on new growth.
5. No effect could be registered in the case of Verticillium infestation on Catalpa.
6. In spring 2009, during the flowering season of Prunus triloba there will be sprayings against Monilia.

Kind regards,

Volkhard Schultz-Jochens, 08.10.2008
