

Tobacco Seedbed Fumigation with **Basamid[®] Granular**

(TRB Approval No. 14-17-E-61)



Pivotal Agro - Services

Manage your seedbed with the newly approved granular soil fumigant for:

**Now
Available
in 1.8Kg Packs**
(To treat a 30m²
seedbed)

- Soil borne fungi ● Nematodes
- Soil pests ● Germinating weeds &
- Soil borne bacteria



Soil borne fungi



Nematodes



Soil pests



Seeds of annual weeds



Seeds, rhizomes and
tubers of perennial weeds



Soil-borne bacteria

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DIRECTIONS FOR USE:
TOBACCO SEEDBEDS: TRB CERT. No : 14-17-E-61

	DOSAGE	APPLICATION
Use in conjunction with root-knot resistant tobacco	60 grams per square meter (60 g/m ²)	Keep seedbed well watered to germinate and activate weed seeds, nematodes, fungi and soil insects. Stop watering 3 days before application of Basamid Gr. Spread Basamid GR evenly over the seedbed area and mix thoroughly with a hoe to 150-200 mm depth. Irrigate to 60% field capacity immediately after application. Cover beds with 125 gauge polythene sheets for seven days. After 7 days remove sheets and aerate soil by making a fine tilth using a hoe. Sowing can be done 28 days after product application.

FLOWERS

SOIL TYPE	DOSAGE	APPLICATION
Light sandy to sandy loam soils (up to 25% clay)	50-70 grams per square meter (50-70 g/m ²)	Pre plant seedbed fumigation for the control of weeds including yellow and purple nutsedge, nematodes, pathogenic fungi and soil insects in flowers and strawberry nursery production. Use higher rate where nematode infestation is high.
Soil mixture with high organic matter. deep.	50-70 grams per square meter, soil layer should be 250-300mm	Bulk treatment of potting soil for the control of weeds, nematodes, soil insects and pathogenic fungi.

Method for Application:

1. PREPARATION PHASE

Work seedbed into a fine tilth, free of large lumps 14 days before the start of fumigation. During this phase, the seedbed should be well watered (to about 80% of field capacity). Stop watering 2 days before BASAMID GRANULAR application so that soil moisture is at about 60% of field capacity on the day of treatment.

(Duration approx. 2 weeks)

2. TREATMENT PHASE

- BASAMID GRANULAR must be spread evenly over the area to be treated. If no application equipment is available, this can be done by hand with a container (glass or plastic) with a perforated lid. The lid should have about 10 holes each about 1 to 2 mm wide.
- Immediately after application BASAMID GRANULAR must be thoroughly mixed with the soil to a minimum depth of 150 mm and a maximum depth of 200 mm. This operation is best done with a rotavator or offset disc harrow. On smaller areas or where these implements are not available, the working in operation can be with a badza (hoe). Use a NEW badza with a blade length of 200 mm. In event of the latter or an offset harrow being used, the operation should be done twice. Level the area with a rake or spike tooth harrow. Water the area to 60% of field capacity.
- Cover the treated area immediately with a tarpaulin or plastic sheet. The cover does not have to be completely air tight. On smaller areas, overlapping plastic fertilizer bags may also be used.

(Duration - a few hours)

3. FUMIGATION PHASE

Leave treated areas under cover for at least 7 days including the day of treatment for higher temperatures. Keep covers in position for 10 days under low temperatures.

(Duration - 1 week)

4. SOIL AERATION

Remove covers. Cultivate the area to a depth of 150 mm to facilitate the escape of the the gasses with one of the implements commended in paragraph 2.2. Do not cultivate too deep as this might mix untreated soil into the profile. Leave the seedbeds open for one week and repeat the cultivation. Leave the area open for another week.

Note: Under very hot and dry conditions, the areas treated may dry out rapidly and should be given additional irrigation to keep at 60% of field capacity.

(Duration 2 weeks)

5. SAFETY TEST

- Take 6 random representative samples of the treated area at the same depth that incorporation took place.
- Bulk these, take a representative sample and fill a jar $\frac{3}{4}$ full.
- Dip a piece of moist cotton wool in lettuce or radish seeds and place into the jar on top of the soil sample.
- Close the lid and place in a warm room.
- Prepare a similar test with untreated soil.
- If no gas residues are present, germination of the radish sed should occur after 48 hours and lettuce seed after 3 to 4 days.
- Healthy germination in both jars indicate the absence of gasses in the soil. The occurrence of healthy germination of the seeds in the jar containing treated soil clearly indicates the presence of traces of gas residue in the treated area and a second gas release cultivation should be carried out.

THE TREATMENT OF POTTING SOIL

Incorporate the required quantity of BASAMID GRANULAR into moist bulk potting mixture by turning at least twice. Soil layer should be 200 - 250 mm deep. Cover the mixture with polythene film, seal and leave for 3 weeks. Before the soil is used it should be spread onto a clean surface away from plants and turned to allow gas to escape. Apply the safety test in paragraph 5.

WARNINGS

- The fumes released from the soil with BASAMID GRANULAR are highly injurious to plant life. The waiting period must be adhered to.
- It is very important that all fumes are removed from the soil before crops are sown. Follow "Directions for use" closely and ensure that results from the "safety test" is satisfactory before commencing with planting.
- Do not use on soils containing more than 25% clay.
- Weed seeds and nutgrass bulbs, which are dormant at the time of application, are enclosed in hard clods of soil or are placed below the treated area will not be fully controlled.
- Do not use if the soil temperature at 15cm depth is below 12°C.
- The efficacy of BASAMID GRANULAR is completely dependant upon adequate mixing with the soil.
- Do not use soils where the proper mixing procedure cannot be carried out.
- Do not irrigate during the aeration period.