

Humilat grow HOBBY application scheme.

We recommend to apply humilat grow for achievement of maximum result during soil treatment in autumn and spring by seed soaking, root watering and plant spraying in the vegetative period.

Recommended schemes for treatment of field crops and vegetables with humilat grow

Soil treatment:

Watering rate in spring and autumn with working solution 5 l per 1 sq. m. (the working solution – dilute 50 ml of concentrate with 10 l of water).

Crops	Seed treatment	Treatment during vegetative period
Peas, beans, lentil	Place seeds in cloth and soak 8-15 hours, then plant in soil. Working solution 3-4 ml of fertilizing agent per 1 l of water.	3-fold plant spraying during vegetative period: 1. spraying during sprouting – during formation of 3-5 leaves; 2. spraying during formation of 5-6 leaves during bud formation; 3. spraying during flowering. Preparation of working solution: dilute 30-40 ml of fertilizing agent with 10 l of water and spray the plant leaves with the obtained solution.
Potatoes	Tuber treatment before planting. Working solution 100 ml of fertilizing agent per 10 l of water or mordant.	3-fold spraying: 1. spraying during formation of 5-7 leaves; 2. spraying during bud formation. 3. spraying during flowering. Preparation of working solution: dilute 30-40 ml of fertilizing agent with 10 l of water and spray the plant leaves with the obtained solution.
Tomatoes, aubergines, sweet pepper, summer squash, pattypan squash, pumpkins	Place seeds in cloth and soak 8-15 hours, then plant in soil. Working solution 3-4 ml of fertilizing agent per 1 l of water.	4-fold spraying: 1. spraying during formation of 2-4 leaves; 2. spraying during bud formation; 3. spraying during flowering; 4. spraying during maturity period. Preparation of working solution: dilute 30-40 ml of fertilizing agent with 10 l of water and spray the plant leaves with the obtained solution.
Cucumbers	Place seeds in cloth and soak 8-15 hours, then plant in soil. Working solution 3-4 ml of fertilizing agent per 1 l	4-fold spraying: 1. spraying during formation of 2-4 leaves; 2. spraying during bud formation stage; 3. spraying during flowering;.

	of water.	4. spraying at interval of 15 days. Preparation of working solution: to dilute 30-40 ml of fertilizing agent with 10 l of water and spray the plant leaves with the obtained solution.
Cabbage, salad	Place seeds in cloth and soak 8-12 hours, then plant in soil. Working solution 3-4 ml of fertilizing agent per 1 l of water.	Pour the obtained solution in seedbed, apply it to root system and leaves. Water with working solution after planting. 3-fold spraying: 1. spraying after 2-3 days since the seedlings were planted; 2. spraying during formation of leaf tap-root-cabbage head; 3. spraying after 10-12 following the second spraying. Preparation of working solution: dilute 30-40 ml of fertilizing agent with 10 l of water and spray the plant leaves with the obtained solution.
Parsley, dill, cress salad, spinach, sorrel, celery	Place seeds in cloth and soak 8-12 hours, then plant in soil. Working solution 3-4 ml of fertilizing agent per 1 l of water.	2-fold spraying: 1. spraying during formation of 2-3 leaves; 2. spraying at interval of 10-15 days. Preparation of working solution: dilute 30-40 ml of fertilizing agent with 10 l of water and spray the plant leaves with the obtained solution.
Onions (seedlings, bulb onions)	Place seeds in cloth and soak 8-15 hours, then plant in soil. Working solution 3-4 ml of fertilizing agent per 1 l of water.	3-fold spraying: 1. spraying during formation of 2-3 leaves; 2. and 3. spraying at interval of 10-12 days. Preparation of working solution: to dilute 30-40 ml of fertilizing agent with 10 l of water and spray the plant leaves with the obtained solution.
Onion seeds, garlic	Place seeds in cloth and soak 8-15 hours, then plant in soil. Working solution 3-4 ml of fertilizing agent per 1 l of water.	2-fold spraying: 1. spraying during formation of 2-3 leaves; 2. spraying at interval of 10-15 days. Volume of working solution depends on sprinkler type (from 50 to 300 ml/sq. m.). Preparation of working solution: dilute 30-40 ml of fertilizing agent with 10 l of water and spray the plant leaves with the obtained solution.
Carrots	Place seeds in cloth and soak 8-15 hours, then plant in soil. Working solution 3-4 ml of fertilizing agent per 1 l of water.	3-fold spraying: 1. spraying during germination and formation of 1-2 true leaves; 2. spraying during formation of the second true leaf; 3. spraying after 10-15 days following the second spraying. Volume of working solution depends on sprinkler type (from 50 to 300 ml/sq. m.). Preparation of working solution: dilute 30-40 ml of fertilizing agent with 10 l of water and spray the plant leaves with the obtained solution.
Beetroot, turnips, radish and other root-crops	Soaking time 8-10 hours. Working solution 3-4 ml of fertilizing agent per 1 l of water.	2-fold plant spraying during vegetative period: 1. spraying during formation of 2-3 true leaves; 2. spraying when plant rows close down. Preparation of working solution: dilute 30-40 ml of fertilizing agent with 10 l of water and

		spray the plant leaves with the obtained solution
Garden radish	Soaking time 8-10 hours. Working solution 3-4 ml of fertilizing agent per 1 l of water.	3-fold spraying: 1. spraying during germination and formation of 2-3 true leaves; 2. and 3. spraying at interval of 10-15 days. Preparation of working solution: dilute 30-40 ml of fertilizing agent with 10 l of water and spray the plant leaves with the obtained solution.
Water melons, melons	Soaking time 8-10 hours. Working solution 3-4 ml of fertilizing agent per 1 l of water.	2-fold spraying: 1. spraying during formation of runners; 2. spraying after 15-20 days. Preparation of working solution: dilute 30-40 ml of fertilizing agent with 10 l of water and spray the plant leaves with the obtained solution.

Recommended schemes for treatment of fruits and vegetables with humilat grow

Crops	Soil treatment:	Seed, root treatment	Treatment during vegetative period
Strawberries	Root fertilization in spring and autumn. Working solution rate 5-10 l per 1 sq.m. Working solution – dilute 70-100 ml of fertilizing agent with 10 l of water.	Soaking time for seedling roots 24 hours before planting. Working solution 50-100 ml of fertilizing agent per 10-20 l of water.	1. treatment – spray the shrubs with obtained solution (watering can) in the evening. Preparation of working solution for 1. treatment: pour 10 l of water over 70 ml of fertilizing agent. 2. treatment – in the evening after 3 days following the first treatment. Preparation of working solution for 2. treatment: pour 10 l of water over 35 ml of fertilizing agent. All subsequent treatments at interval of 10-15 days, the ratio of working solution as for 2. treatment.
High bush blueberries	Root fertilization in spring and autumn. Working solution rate 8-10 litres per each shrub depending on age. Working solution – dilute 40-60 ml of fertilizing agent with 10 l of water.	Soaking time for seedling roots 24 hours before planting. Working solution 60 ml of fertilizing agent per 10 l of water.	4-fold spraying: 1. spraying before flowering; 2. spraying after 5-7 days following the flowering stage; 3. spraying after 10-15 following the second spraying. 4. spraying during berry ripening stage. Preparation of working solution: dilute 30-40 ml of concentration with 10 l of water. Utilization rate for spraying: 0,2-0,5 l/shrub (depending on shrub size). For watering: 3-10 l/shrub (depending on shrub size).
Currants Gooseberries	Root fertilization in spring and autumn. Work	Soaking time for seedling roots 24	3-fold spraying: 1. spraying before flowering stage;

Raspberries Blackberries Sea buckthorn	solution rate 5-10 litres per each shrub depending on age. Working solution – dilute 40-60 ml of fertilizing agent with 10 l of water.	hours before planting. Working solution 60 ml of fertilizing agent per 10 l of water.	2. spraying after 5-7 days following the flowering stage; 3. spraying during berry maturation. Preparation of working solution: dilute 30-40 ml of concentrate with 10 l of water. Utilization rate for spraying: 0,2-0,5 l/shrub (depending on shrub size). For watering: 3-10 l/shrub (depending on shrub size).
Apple-tree Pear-tree Cherry-tree Plum-tree Quince Fig-tree Peach-tree Apricot-tree	Root fertilization in spring and autumn. Working solution rate 10-40 l per each tree depending on age. Working solution – dilute 100-150 ml of fertilizing agent with 10 l of water.	Soaking time for seedling roots 24 hours before planting. Working solution 50-100 ml of fertilizing agent per 10-20 l of water.	4-fold spraying: 1. spraying during bud formation; 2. spraying after 5-7 days before the flowering stage; 3. spraying during physiological drop off of ovaries; 4. spraying during intensive fruit growth. Preparation of working solution: dilute 30-40 ml of fertilizing agent with 10 l of water and spray leaves of 7-10 trees with obtained solution.
Grape vine tree	Root fertilization in spring applying treatment of spaces between rows. Working solution rate 10-15 l per each vine depending on age. Working solution 50-100 ml of fertilizing agent per 10 l of water.	Soaking time for sproutings 24 hours before planting. Working solution 50-100 ml of fertilizing agent per 10-20 l of water.	3-fold spraying: 1. spraying during bud formation. 2. spraying after the flowering stage; 3. spraying during fruit maturation. Preparation of working solution: dilute 30-40 ml of fertilizing agent with 10 l of water and spray leaves of 7-10 seedlings with obtained solution.
Citrus plants	Root fertilization in spring applying treatment of spaces between rows. Working solution rate 10-20 l per each plant depending on age. Working solution: dilute 100-150 ml of fertilizing agent with 10 l of water.	Soaking time for seedling roots 10-12 hours before planting. Working solution 50-100 ml of fertilizing agent per 10-20 l of water.	4-fold spraying: 1. spraying after 5-7 days following the flowering stage; 2. spraying in the start of ovary drop off; 3. and 4. spraying at interval of 2-3 weeks. Preparation of working solution: dilute 30-40 ml of fertilizing agent with 10 l of water and spray leaves of 7-10 trees with obtained solution.

Recommended schemes for treatment of ornamental plants and lawns with humilat grow

Crops	Soil treatment:	Seed, root, bulb treatment	Treatment during vegetative period
Annuals flowers	Soil treatment: Watering rate in spring and autumn with working solution 5 l per 1 sq. m. (working solution – dilute 30 ml of concentration with 10 l of water).	Soaking time for seedling roots and bulbs 10-12 hours before planting. Working solution 4-10 ml of fertilizing agent per 1 l of water.	2-fold spraying flowers in vegetative period: 1. spraying during germination; 2. spraying during bud formation. Preparation of working solution: dilute 30-40 ml of fertilizing agent with 10 l of water and spray the plant leaves with obtained solution. Consumption of working solution for spraying 5-7 l/100 sq. m. For watering: 20 ml of fertilizing agent per 10 l of water. The amount of applied working solution is the same as for usual watering with water.
Perennial flowers	Root fertilization in spring and autumn. Watering rate in spring and autumn with working solution 5 l per 1 sq. m. (working solution – dilute 30 ml of concentration with 10 l of water).	Soaking time for seedling roots and bulbs 10-12 hours before planting. Working solution 4-10 ml of fertilizing agent per 1 l of water.	4-fold spraying: 1. spraying in the beginning of vegetative period; 2. spraying after 10-12 days; 3. spraying during bud formation; 4. spraying after flowering stage. Preparation of working solution: dilute 30-40 ml of fertilizing agent with 10 l of water and spray plant leaves with obtained solution. Consumption of working solution 5-7 l/100 sq. m For watering: 20 ml of fertilizing agent per 10 l of water. The amount of applied working solution is the same as for usual watering with water.
Indoor house plants		Soaking time for seedling roots and bulbs 10-12 hours before planting. Working solution 4-10 ml of fertilizing agent per 1 l of water.	Application once per month: - preparation of working solution for plant spraying: dilute 5-8 ml of fertilizing agent with 1 l of water and spray the plant leaves with the obtained solution until leaf surfaces are completely wet; - for watering: 2 ml of fertilizing agent per 1 l of water. The amount of applied working solution is the same as for usual watering with water.
Roses	Root fertilization in spring and autumn. Working solution rate 4-5 l per shrub (working solution – dilute 30 ml of concentrate with 10 l of	Soaking time for sproutings and seedlings 10-15 hours before planting. Working solution 8-10 ml of fertilizing agent	4-fold spraying: 1. spraying in the beginning of vegetative period; 2. spraying during bud formation; 3. spraying after the flowering stage and pruning; 4. spraying after the second flowering and pruning. Preparation of working solution: dilute 30-40 ml of fertilizing agent

	water).	per 1 l of water.	with 10 l of water and spray plant leaves with obtained solution. Consumption of working solution 5-7 l/100 sq. m. For watering: 20 ml of fertilizing agent per 10 l of water. Working solution rate 10-20 l per 10 sq. m.
Lawn	Pre-treatment before winter period at the end of vegetative stage enhances sugar content in grass shoot nodes which significantly increases frost resistance if winter has little snow.	Soaking time for seeds 10-12 hours before planting. Working solution 10 ml of fertilizing agent per 1 litre of water. Dry out the seeds in air before sowing until loose condition.	Spraying new grass: 1-spraying during germination (4-5 cm); Next - after mowing. Spraying the existing lawn: 1. spraying in early spring in the start of vegetative period; Next - after mowing. Preparation of working solution: dilute 30-40 ml of fertilizing agent with 10 l of water and spray the lawn with obtained solution. Consumption of working solution for spraying 5-7 l/100 sq. m. Watering: 20 ml of fertilizing agent per 10 l of water. Working solution rate 10-20 l per 10 sq. m.
Ornamental conifer plants	Root fertilization in spring and autumn. Working solution rate 10-40 l per each tree depending on age. Working solution- dilute 80-100 ml of fertilizing agent with 10 l of water.	Soaking time for seedling roots 24 hours before planting. Working solution 50-100 ml of fertilizing agent per 10-20 l of water.	Spraying should be carried out after 2-3 weeks following planting, then repeat every two weeks from the beginning of May and continue until the end of August. Working solution - dilute 30 ml of fertilizing agent with 10 l of water. The existing conifer plants need to be treated at interval of 14 days in spring and summer. The fertilizer is easily taken up, enhances stable growth, improves the tree health and the green colour of needles. It should be noted that this fertilizing agent is compatible with all pesticides, therefore it can be used in tank mixtures thus reducing the number of treatments.

Humilat grow as biological compost activator

Humilat grow - the agent which accelerates the complicated disintegration process of organic compounds in compost manufacturing. Enhances quicker and more adequate compost maturation. Significantly improves the quality of obtainable substrates. Maintains active microflora, elevated content of ferments and enzymes in substrate in the long term ensuring high biological activity and nutritional properties. Inhibits development of infectious microflora reducing the number of harmful compounds in substrate. A large quantity of organic acids and carbonic acids is formed during disintegration of organic matter. Under their influence the difficultly available phosphorus, calcium, magnesium mineral compounds transform into the forms available to plants resulting in significantly increased yields.

Application scheme: watering the composting material with working solution: dilute 50-100 ml of concentration with 10 l of water. Consumption of working solution: 20 l per 1 m³. Application frequency: depending on composting methodology: 1-2 times per month; depending on when fresh material is replenished; carry out watering when dried out.