

Torfusha Peat Gel

Recommendation for Use

Torfusha Peat Gel represents a new generation of humic products. It is produced using an unprecedented electro-hydro-pulse technology of peat nano-destruction followed by ultrasound treatment that allows transformation of peat humic acids into a bioactive water-soluble form without the use of chemical reagents. Using this novel technology, it is possible to preserve the integrity of peat biochemical compounds and obtain a product that has distinct growth enhancement and immunomodulatory properties effective for plants and animals.

The Peat Gel is a high-concentration colloid solution containing, besides active water-soluble humates, a whole range of bioactive nitrogen, phosphorus and potassium compounds, and microelements.

Torfusha Peat Gel is used to restore the soil-plant ecosystem's natural balance to allow the plants and animals to fully release their growth and development potential, and enhance their stress-resistance and immunity.

Ensuring the absolute environmental safety and versatile biological effect, Torfusha provides a ground for the actual transition to organic farming, a new type of farming intended to preserve the natural ecological balance of soil and improve the whole soil ecosystem bringing it back to the natural state.

Crop	Seed treatment	Treatment during the growing season
Winter and spring wheat Winter rye Winter and spring barley	Seed treatment with any dressers before sowing. Equipment: Treatment machine type: PSSh-5, PS-10, PS-10A, PK-20 Treatment solution consumption: 10L / 1 ton seeds. Treatment solution preparation: Dilute 0.5 L Peat Gel in 10L water.	Spraying two times in the period of vegetation: 1 st spraying at the stage of tillering – early stem extension; 2 nd spraying at the stage of blooming – early milky ripeness. Treatment solution consumption: 250-300 L/ha for one treatment. Treatment solution preparation: Dilute 1 L Peat Gel in 250-300 L water and use the solution to cover 1 ha.
Colza	Seed treatment with any dressers before sowing. Equipment: Treatment machine type: PSSh-5, PS-10, PS-10A, PK-20 Treatment solution consumption: 10L / 1 ton seeds. Treatment solution preparation: Dilute 0.5 L Peat Gel in 10L water	Spraying two times in the period of vegetation: 1 st spraying at the stage of leaf rosette; 2 nd spraying at the stage of budding. Treatment solution consumption: 250-300 L/ha for one treatment. Treatment solution preparation: Dilute 1.5 L Peat Gel in 250-300 L water and use the solution to cover 1 ha.
Oat	Seed treatment with any dressers before sowing. Equipment: Treatment machine type: PSSh-5, PS-10, PS-10A, PK-20 Treatment solution consumption: 10L / 1 ton seeds. Treatment solution preparation: Dilute 0.5 L Peat Gel in 10L water.	Spraying two times in the period of vegetation: 1 st spraying at the stage of tillering; 2 nd spraying at the stage of panicle heading – early milky ripeness. Treatment solution consumption: 250-300 L/ha for one treatment. Treatment solution preparation: Dilute 1 L Peat Gel in 250-300 L water and use the solution to cover 1 ha.
Grain maize	Seed treatment with any dressers before sowing. Equipment: Treatment machine type: PSSh-5, PS-10, PS-10A, PK-20 Treatment solution consumption: 10L / 1 ton seeds. Treatment solution preparation: Dilute 0.5 L Peat Gel in 10L water.	Spraying two times in the period of vegetation: 1 st spraying at the stage of sprouts – emergence of 3-5 leaves; 2 nd spraying at the stage of panicle heading – blooming. Treatment solution consumption: 250-300 L/ha for one treatment. Treatment solution preparation: Dilute 1 L Peat Gel in 250-300 L water and use the solution to cover 1 ha.

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Crop	Seed treatment	Treatment during the growing season
Maize for silage	Seed treatment with any dressers before sowing. Equipment: Treatment machine type: PSSH-5, PS-10, PS-10A, PK-20 Treatment solution consumption: 10L / 1 ton seeds. Treatment solution preparation: Dilute 0.5 L Peat Gel in 10L water.	Spraying three times in the period of vegetation: 1 st spraying at the stage of emergence of 3-5 leaves; 2 nd and 3 rd spraying at an interval of 10 to 15 days. Treatment solution consumption: 250-300 L/ha for one treatment. Treatment solution preparation: Dilute 1 L Peat Gel in 250-300 L water and use the solution to cover 1 ha.
Buckwheat	Seed treatment with any dressers before sowing. Equipment: Treatment machine type: PSSH-5, PS-10, PS-10A, PK-20 Treatment solution consumption: 10L / 1 ton seeds. Treatment solution preparation: Dilute 0.5 L Peat Gel in 10L water.	Spraying two times in the period of vegetation: 1 st spraying at the stage of branching – early budding; 2 nd spraying 10-14 days after the previous one. Treatment solution consumption: 250-300 L/ha for one treatment. Treatment solution preparation: Dilute 1 L Peat Gel in 250-300 L water and use the solution to cover 1 ha.
Millet	Seed treatment with any dressers before sowing. Equipment: Treatment machine type: PSSH-5, PS-10, PS-10A, PK-20 Treatment solution consumption: 10L / 1 ton seeds. Treatment solution preparation: Dilute 0.5 L Peat Gel in 10L water.	Spraying two times in the period of vegetation: 1 st spraying at the stage of tillering; 2 nd spraying at the stage of panicle heading. Treatment solution consumption: 250-300 L/ha for one treatment. Treatment solution preparation: Dilute 1 L Peat Gel in 250-300 L water and use the solution to cover 1 ha.
Colza	Seed treatment with any dressers before sowing. Equipment: Treatment machine type: PSSH-5, PS-10, PS-10A, PK-20 Treatment solution consumption: 10L / 1 ton seeds. Treatment solution preparation: Dilute 0.5 L Peat Gel in 10L water.	Spraying two times in the period of vegetation: 1 st spraying at the stage of leaf rosette; 2 nd spraying at the stage of budding. Treatment solution consumption: 250-300 L/ha for one treatment. Treatment solution preparation: Dilute 1 L Peat Gel in 250-300 L water and use the solution to cover 1 ha.
Pea	Seed treatment with any dressers before sowing. Equipment: Treatment machine type: PSSH-5, PS-10, PS-10A, PK-20 Treatment solution consumption: 10L / 1 ton seeds. Treatment solution preparation: Dilute 0.5 L Peat Gel in 10L water.	Spraying three times in the period of vegetation: 1 st spraying at the stage of sprouts – emergence of 3-5 leaves; 2 nd spraying at the stage of 5-6 leaves – budding; 3 rd spraying at the stage of blooming. Treatment solution consumption: 250-300 L/ha for one treatment. Treatment solution preparation: Dilute 1 L Peat Gel in 250-300 L water and use the solution to cover 1 ha.
Rice	Seed treatment with any dressers before sowing. Equipment: Treatment machine type: PSSH-5, PS-10, PS-10A, PK-20 Treatment solution consumption: 10L / 1 ton seeds. Treatment solution preparation: Dilute 0.5 L Peat Gel in 9 L water.	
Sorghum	Seed treatment with any dressers before sowing. Equipment: Treatment machine type: PSSH-5, PS-10, PS-10A, PK-20 Treatment solution consumption: 10L / 1 ton seeds. Treatment solution preparation: Dilute 0.7 L Peat Gel in 10L water.	Spraying two times in the period of vegetation: 1 st spraying at the stage of tillering – early stem extension, 2 nd spraying at the stage of panicle heading - blooming. Treatment solution preparation: Dilute 1 L Peat Gel in 250-300 L water and use the solution to cover 1 ha.

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Crop	Seed treatment	Treatment during the growing season
Sunflower	Seed treatment with any dressers before sowing. Equipment: Treatment machine type: KPS-10 A, PS-10, «Мобитокс» Treatment solution consumption: 10L / 1 ton seeds. Treatment solution preparation: Dilute 0.5 L Peat Gel in 10L water.	Spraying three times in the period of vegetation: 1 st spraying at the stage of sprouts; 2 nd spraying at the stage of forming 3 to 4 pairs of true leaves and 3 rd spraying at an interval of 10 to 15 days. Treatment solution consumption: 250-300 L/ha for one treatment. Treatment solution preparation: Dilute 1 L Peat Gel in 250-300 L water and use the solution to cover 1 ha.
Soya	Seed treatment with any dressers before sowing. Equipment: Treatment machine type: PSSH-5, PS-10, PS-10A, PK-20 Treatment solution consumption: 10L / 1 ton seeds. Treatment solution preparation: Dilute 0.5 L Peat Gel in 9 L water.	Spraying three times in the period of vegetation: 1 st spraying at the stage of sprouts – formation of 2 to 3 true leaves; 2 nd spraying at the stage of shooting – early budding; 3 rd spraying at the stage of early blooming. Treatment solution consumption: 250-300 L/ha for one treatment. Treatment solution preparation: Dilute 1 L Peat Gel in 250-300 L water and use the solution to cover 1 ha.
Potato	Pre-planting treatment of the tubers. Equipment: <ul style="list-style-type: none"> • NVU-10 plant for pre-planting treatment of seed-potato tubers • Special tractor or conveyer-mounted units (e.g., PMK-1 for NZK-30 and KSP-25). • Specially equipped potato planters • Knapsack sprayers or handheld atomizers. Treatment solution consumption: 300 L / 1 ton seeds. Treatment solution preparation: Dilute 2 L Peat Gel in 300 L water.	Crop spraying two times: 1 st spraying at the stage of emergence of 5 to 7 leaves; 2 nd spraying at the stage of budding. Treatment solution consumption: 250-300 L/ha for one treatment. Treatment solution preparation: Dilute 1.2 L Peat Gel in 250-300 L water and use the solution to cover 1 ha.
Tomato	Seed soaking in the Peat Gel solution before planting. Soaking time: 15 hours. Treatment solution consumption: 1 L / 1 kg seeds. Treatment solution preparation: Dilute 50 g Peat Gel in 10 L water	1 st spraying at the stage of появления 2 to 4 leaves; 2 nd spraying at the stage of budding; 3 rd spraying at the stage of early blooming; 4 th spraying at the stage of fruiting. Treatment solution consumption: 250-300 L/ha for one treatment. Treatment solution preparation: Dilute 1.2 L Peat Gel in 250-300 L water and use the solution to cover 1 ha.
Cucumber	Seed soaking in the Peat Gel solution before planting. Soaking time: 15 hours. Treatment solution consumption: 1 L / 1 kg seeds. Treatment solution preparation: Dilute 50 g Peat Gel in 10L water.	1 st spraying at the stage of emergence of 2 to 4 true leaves; 2 nd and 3 rd spraying at an interval of 15 days. Treatment solution consumption: 250-300 L/ha for one treatment. Treatment solution preparation: Dilute 1 L Peat Gel in 250-300 L water and use the solution to cover 1 ha.
Eggplant	Seed soaking in the Peat Gel solution before planting. Soaking time: 15 hours. Treatment solution consumption: 1 L / 1 kg seeds. Treatment solution preparation: Dilute 50 g Peat Gel in 10L water	Crop spraying three times: 1 st spraying at the stage of emergence of 2 to 4 leaves; 2 nd spraying at the stage of budding; 3 rd spraying at the stage of early blooming. Treatment solution consumption: 250-300 L/ha for one treatment. Treatment solution preparation: Dilute 1 L Peat Gel in 250-300 L water and use the solution to cover 1 ha.

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Crop	Seed treatment	Treatment during the growing season
Marrow squash, pattypan	Seed soaking in the Peat Gel solution before planting. Soaking time: 18 hours. Treatment solution consumption: 1 L / 1 kg seeds. Treatment solution preparation: Dilute 50 g Peat Gel in 10L water	Crop spraying three times: 1 st spraying at the stage of emergence of 2 to 4 true leaves; 2 nd spraying at the stage of budding; 3 rd spraying at the stage of early blooming. Treatment solution consumption: 250-300 L/ha for one treatment. Treatment solution preparation: Dilute 1 L Peat Gel in 250-300 L water and use the solution to cover 1 ha.
Cabbage	Seed soaking in the Peat Gel solution before planting. Soaking time: 10 hours. Treatment solution consumption: 1 L / 1 kg seeds. Treatment solution preparation: Dilute 50 g Peat Gel in 10L water	Crop spraying three times: 1 st spraying 2-3 days after planting of seedlings; 2 nd spraying at the stage of leaf whorl – head setting; 3 rd spraying 10-12 days after the second. Treatment solution consumption: 250-300 L/ha for one treatment. Treatment solution preparation: Dilute 1 L Peat Gel in 250-300 L water and use the solution to cover 1 ha.
Planting onion	Seed soaking in the Peat Gel solution before planting. Soaking time: 10 hours. Treatment solution consumption: 1 L / 1 kg seeds. Treatment solution preparation: Dilute 50 g Peat Gel in 10L water.	Crop spraying three times: 1 st spraying at the stage of emergence of 2 to 3 leaves; 2 nd and 3 rd spraying at an interval of 10 to 12 days Treatment solution consumption: 250-300 L/ha for one treatment. Treatment solution preparation: Dilute 1 L Peat Gel in 250-300 L water and use the solution to cover 1 ha.
Bulb onion	Bulb soaking in the Peat Gel solution before planting. Soaking time: 15 hours. Treatment solution consumption: 1 L / 1 kg seeds. Treatment solution preparation: Dilute 50 g Peat Gel in 10L water.	Crop spraying three times: 1 st spraying at the stage of emergence of 2 to 3 leaves; 2 nd and 3 rd spraying at an interval of 10 to 12 days Treatment solution consumption: 250-300 L/ha for one treatment. Treatment solution preparation: Dilute 1 L Peat Gel in 250-300 L water and use the solution to cover 1 ha.
Seed onion	Bulb soaking in the Peat Gel solution before planting. Soaking time: 15 hours. Treatment solution consumption: 1 L / 1 kg seeds. Treatment solution preparation: Dilute 50 g Peat Gel in 10L water.	Crop spraying two times: 1 st spraying at the stage of emergence of 2 to 3 true leaves; 2 nd spraying at an interval of 10 to 15 days. Treatment solution consumption: 250-300 L/ha for one treatment. Treatment solution preparation: Dilute 1 L Peat Gel in 250-300 L water and use the solution to cover 1 ha.
Carrot	Seed soaking in the Peat Gel solution before planting. Soaking time: 10 hours. Treatment solution consumption: 1 L / 1 kg seeds. Treatment solution preparation: Dilute 50 g Peat Gel in 10L water.	Spraying three times in the period of vegetation: 1 st spraying at the stage of sprouts – formation of 1-2 true leaves, 2 nd spraying at the stage of the 2 nd true leaf; 3 rd spraying 10 to 15 days after the previous one. Treatment solution consumption: 250-300 L/ha for one treatment. Treatment solution preparation: Dilute 1 L Peat Gel in 250-300 L water and use the solution to cover 1 ha.

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Crop	Seed treatment	Treatment during the growing season
Radish	Seed soaking in the Peat Gel solution before planting. Soaking time: 10 hours. Treatment solution consumption: 1 L / 1 kg seeds. Treatment solution preparation: Dilute 50 g Peat Gel in 10L water.	Spraying three times in the period of vegetation: 1 st spraying at the stage of forming 2-3 true leaves, 2 nd and 3 rd spraying at an interval of 10 to 15 days. Treatment solution consumption: 250-300 L/ha for one treatment. Treatment solution preparation: Dilute 1 L Peat Gel in 250-300 L water and use the solution to cover 1 ha.
Apple-tree Pear Cherry Plum Quince Peach Apricot	Seedling root soaking in the Peat Gel solution before planting. Soaking time: 20 hours. Spray consumption: 100 g / 100 L water	Spraying four times in the period of vegetation: 1 st spraying 5-7 days after blooming, 2 nd spraying in the beginning of physiological fruit dropping; 3 rd spraying in the period of prefloration; 4 th spraying in the period of intensive growth of fruits. Treatment solution consumption: 1000-1200 L/ha for one treatment. Treatment solution preparation: Dilute 2.5-3 L Peat Gel in 1000-1200 L water and use the solution to cover 1 ha.
Grapes	Vine soaking in the Peat Gel solution before planting. Soaking time: 20 hours. Spray consumption: 100 g / 100 L water	Grapes crop spraying three times in the period of vegetation: 1 st spraying at the stage of budding; 2 nd spraying after blooming; 3 rd spraying at the stage of berry filling. Treatment solution consumption: 1000-1200 L/ha for one treatment. Treatment solution preparation: Dilute 2.5-3 L Peat Gel in 1000-1200 L water and use the solution to cover 1 ha.
Water melon	Seed treatment with any dressers before sowing. Treatment solution consumption: 10 L / 1 ton seeds. Treatment solution preparation: Dilute 0.2 L Peat Gel in 10L water. Seed soaking in the Peat Gel solution before planting. Soaking time 18 hours. Treatment solution consumption: 1 L / 1 kg seeds. Treatment solution preparation: Dilute 50 g Peat Gel in 10L water.	Spraying two times in the period of vegetation: 1 st spraying at the stage of vine formation, 2 nd spraying after 15-20 days. Treatment solution consumption: 250-300 L/ha for one treatment. Treatment solution preparation: Dilute 1 L Peat Gel in 250-300 L water and use the solution to cover 1 ha.
Citruses	Seedling root soaking in the Peat Gel solution before planting. Soaking time 10-12 hours. Spray consumption: 10 g / 10 L water.	Spraying four times in the period of vegetation: 1 st spraying 5-7 days after blooming, 2 nd spraying in the beginning of fruit dropping, next two sprayings at an interval of 2 to 3 weeks. Treatment solution consumption: 1000-1200 L/ha for one treatment. Treatment solution preparation: Dilute 2-2.5 L Peat Gel in 1000-1200 L water and use the solution to cover 1 ha.
Cotton	Seed treatment: 1 L Torfusha Peat Gel / 50 L water / 1 ton seeds.	1 st treatment at the stage of 4-6 true leaves. 1 L Peat Gel per 300 L water. 2 nd treatment 2 weeks after. 1 L Peat Gel per 300 L water for soil dressing. 1 L for leaves treatment. 3 rd treatment: leaves treatment. 1 L per 300 L water in the period of budding. 4 th treatment: leaves treatment. 1 L per 300 L water.

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