DURPETA

PEAT ◆ PEAT SUBSTRATE ◆ PEAT FUEL

JSC “Durpeta” – Lithuanian Capital Company obtaining and processing peat, Lithuania’s most valuable excavation.

JSC “Durpeta” has already counted almost 60 years of its existence. The amounts of factory production have significantly risen during that period. Furthermore, the scope of their operations and production range have expanded.

The company operates 6 peatbogs producing more than 500 000 m^3 of peat moss, almost a third of which is processed into peat substrate and peat fuel. More than 200 people work in the company.

Goals, objectives

JSC “Durpeta” goal – to remain a leading company in their field, continually improving the quality and quantity indicators.

Much has been invested to implement new technologies and methods of work as well as to improve qualifications of the employees. We strive to provide customers with maximum benefits in our clients by Lithuanian and international market needs.

Our experience and work –
for your harvest and home!

Peat characteristics

CATEGORY **A (WHITE)**	Peat segmentation to **H3 (to 15%)**
EC	30–80 mS/cm (20° C)
pH ($CaCl_2$)	2,0–3,0
Moisture	30–40 %
Amount of organic substance (min)	94 %
CATEGORY **B (BROWN)**	Peat segmentation to **H5 (to 25%)**
EC	20–60 mS/cm (20° C)
pH ($CaCl_2$)	3,5–4,5
Moisture	40–50 %
Amount of organic substance (min)	92 %
CATEGORY **C (BLACK)**	Peat segmentation to **H7 (to 35%)**
EC	80–110 mS/cm (20° C)
pH ($CaCl_2$)	3,5–5
Moisture	40 %
Amount of organic substance (min)	92 %

JSC "Durpeta" operates 6 peatbogs where peat is high-marshy (covers part of Šepeta peatbogs, Tyrelis, Aliai, Kalniškiai peatbogs) and low-marshy type (covers Pabalvė, Lebeliai, Aklaežeris and a part of Šepeta peatbogs);

High-marshy peat is loose, ranging from yellow to brownish colour.

According to LST 1957:2006 standard, humification (decomposition) level (H) of the peat produced by JSC "Durpeta" ranges from H2 (light and slightly segmented peat) to H6 (dark and highly segmented peat).

The peat produced by JSC "Durpeta" has been divided into 3 categories.

All categories peat is packed into bales of different capacity including big bales. JSC "Durpeta" was one of the first who started exporting peat to other countries. The first bales with peat were exported in 1985. Each year the amount of exported peat is expanding. Novadays, raw material for processing peat is harvested at Šepeta, Aliai and Tyrelis peatbogs. Annually more than 500 000 cubic meters of peat moss are produced and sold.

In 2006 November,
JSC "Durpeta" was the first in Lithuania to certificate
the peat from Šepeta peatbog as suitable for ecological agriculture.
This peat is marked with a special label.

NATURAL PEAT BLOCKS

Highmoor peat is harvested in blocks, which afterwards are stored in stacks and dried for up to 12 months. The advantage of this production method is that the structure of peat moss is preserved. Both excellent preparation and processing allow preserving the physical characteristics of final product close to initial qualities. When applying this method, the structure of the products appears rough, they are soft and perfectly absorb water. After processing, neutralizing and adding fertilizers, the peat blocks might perfectly serve for growing plants.

NATURAL PEAT IN BALES

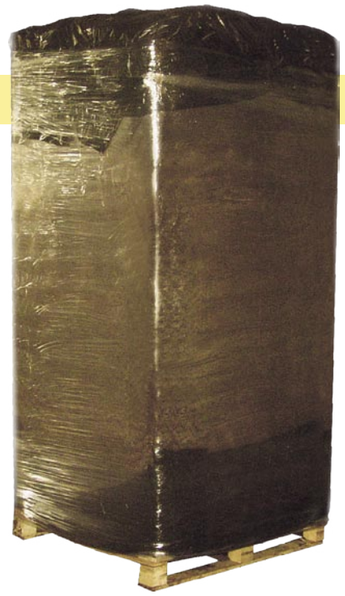
Natural highmoor peat is widely used in horticulture, floriculture, gardening and animal husbandry. To improve loam and sandy loam soil physical and biological characteristics, vegetables, fruits, flowers, bulbs are stored as bedding for animals and birds.

CAPACITY, l	PEAT FRACTION, mm	PRODUCT CODE	EAN CODE	BALES NUMBER PER PALLET	NUMBER OF PALLETS IN THE TRUCK
50	0–5; 0–10; 0–20, 0–40	GP0338	4771306271356	51	30/32
150	0–20	GP0021	4771306271031	24	30/32
250	0–5; 0–10; 0–20; 0–40	GP0050	4771306271024	18	30/32
300	0–20; 0–40	GP0019	4771306271017	18	24

All peat, except 300 l, can be neutralized (pH 5,5–6,5).

NATURAL PEAT IN BIG BALES

NAME OF PEATBOG	PEAT CATEGORY	FRACTION, mm	BIG BALES CAPACITY, l
Šepeta	White peat, Category A	0–5; 0–10; 0–20; 5–10; 10–20; 0–40, 20–40 fibrous	5000/5600
	Brown peat, Category B	0–20; 0–40	4000
	Black peat, Category C	0–5; 0–20	3000
Tyrelis	White peat, Category A	0–40	5000/6000
	Brown peat, Category B	0–40	4000
Aliai	White peat, Category A	0–20	6000
	Brown peat, Category B	0–20	4000



JSC "Durpeta" one of the first in Lithuania acquired the professional peat substrate manufacturing equipment. The first peat substrates for professional growers were produced in 1995.

Asortiment

JSC "Durpeta" produces a wide range of products – from lower-price standard substrates to the specific needs mixtures of the customer, for example: primula's/viola's substrate poinsettia's substrate and container (ornamental) plant substrates with long-term effects of fertilizers. You can choose the desired product from those offered by the different structures of peat: 0–5, 5–10, 10–20, 20–40, 0–10, 0–20, 0–40 and > 50 mm.

JSC "Durpeta" production is packed in the 10–70 liter bags or into 150–250 liter bags and different size of big bales.

Each package may have a sign with the original prescription number and composition of all the goods and the structure of data.

Each tray is also identified through an automatic labeling system.

Quality control

The stability of substrates quality parameters is guaranted by automatic batching system, which ensure not more then 1-2% – deviation of components, however all products such as raw material of the peat and substrates must be tested in the labaratory of the company. The main researches are as following:

- Determination of a quantity (standard LST EN 12580);
- Determination of pH (acidity) (standard LST EN 13037);
- Determination of electrical conductivity (LST EN 13038).

In the big or small bag the volume control is based on determination of bulk density, that means weight of one litre of product. Through the test sieve 20 litres of the product are sieved into the measurement cylinder, then it is weighted and calculated the weight of one litre. Bag or big bale are weighted, the weight of package is deducted, the result is devided by the weight of one litre gives litres of product in one package.

Products are tested periodically, data of bulk density, pH, electrical conductivity are recorded into Quality control list, the sample is kept in the store for one year.

All products are marked. The date, title, codes which help to determine the exact date of production are printed on bags.

Additionally, the main nutrients such as nitrate and ammonia nitrogen, phosphorus, kali are measured by spectral-photometer DR 2800.

Peat comparing with other cultivation vibes

Cultivation vibes	pH	Salt quantity	Nutritional material	Bulk density	Water part	Air part	Structure stability	Weed seeds, disease seeds
Light peat								
Black peat								
Coconut fiber								
Compost								
Perlite								
Vermiculite								

very positive (very useful, very positive, very good)
positive (beneficial, favorable, good)
neutral
negative (useless, negative, not good)
very negative (very useless, very negative, very bad)

Source – IPS 2000

www.durpeta.lt

NEUTRALIZED PEAT (pH 5–6)

Neutralized highmoor peat soil of well balanced acidity, in which there is no pathogens, plant pests, weed seeds. Used as a supplement of mulching about stems of fruit trees, decorative trees and shrubs and improvement of plant seedlings, upper layer of soil.

Peat

Sand, clay

Fertilizer

Water absorption regulation

Microelements

Quality indexes					
pH (H_2O)	Nutritional material, mg/l			Microelements	Electrical contuctivity, mS/cm
	N	P_2O_5	K_2O		
5,5–6,5	30	10	20		0,05–0,20

CAPACITY, l	PEAT FRACTION, mm	PRODUCT CODE	EAN CODE	BALES NUMBER PER PALLET	NUMBER OF PALLETS IN THE TRUCK
50	0–20 or as needed	GP0116	4771306272038	51	30/32
250	0–20 or as needed	GP0219	4771306272712	15	30/32
4000	0–20 or as needed	GP0497		Big bale	24/26

PEAT SUBSTRATE **PROFIMIX 1** FOR SOWING AND PITCHING

A universal substrate for different sowing seeds, for cultivation vegetable plants, soil improvement. Substrate is made from a special recipe eco-friendly peat, improved nutritional additives and trace elements. Peat fraction 0–5 or 0–10 mm (fine).

Quality indexes					
pH (H_2O)	Nutritional material, mg/l			Microelements	Electrical contuctivity, mS/cm
	N	P_2O_5	K_2O		
5,8–6,5	60–100	70–200	100–300	(Fe, Mn, Cu, B, Zn...)	0,6–0,9

PRODUCT	CAPACITY, l	PRODUCT CODE	EAN CODE	BALES NUMBER PER PALLET	NUMBER OF PALLETS IN THE TRUCK
PROFI MIX 1a FOR SOWING	70	GP0912		42	30/32
	250	GP0430	4771306273714	15	30/32
	4000	GP0519		Big bale	24/26
PROFI MIX 1b FOR PITCHING	70	GP0520		42	30/32
	250	GP0521		15	30/32
	4000	GP0522		Big bale	24/26

PEAT SUBSTRATE **PROFIMIX 2** FOR CULTIVATION

Substrate for growing sprouts of vegetables, flowers and growing plants. Enriched with amino, huminic acids, phosphorus, kalium and united microelements, which have direct influence on roots development, significantly improves assimilation of active materials, stimulates growth of the plant. Ruter–AA and Humistar are included in composition of this substrate. Peat fraction 0–20 or as needed.

Quality indexes					
pH (H_2O)	Nutritional material, mg/l			Microelements	Electrical contuctivity, mS/cm
	N	P_2O_5	K_2O		
5,5–6,5	140–200	160–200	180–300	(Fe, Mn, Cu, B, Zn...)	0,9–1,4

PRODUCT	CAPACITY, l	PRODUCT CODE	EAN CODE	BALES NUMBER PER PALLET	NUMBER OF PALLETS IN THE TRUCK
PROFI MIX 2a FOR VEGETABLES	70	GP0558		42	30/32
	250	GP0536		15	30/32
	4000			Big bale	24/26
PROFI MIX 2b FOR FLOWERS	70	GP0523	4771306273851	42	30/32
	250	GP0429	4771306273707	15	30/32
	4000	GP0524		Big bale	24/26

PEAT SUBSTRATE **UNIVERSAL**

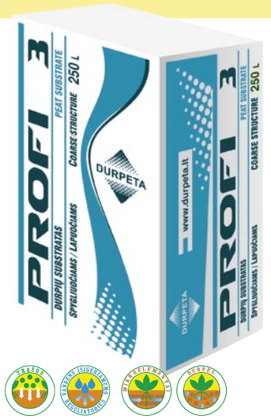
Universal Substrate is intended for growing various vegetables'sprouts and improvement of ground. Substrate is made according to special recipe from eco-friendly peat, enriched with nutritional supplements and microelements. Peat fraction 0–20 mm or 0–40 mm (medium).

Quality indexes					
pH (H_2O)	Nutritional material, mg/l			Microelements	Electrical contuctivity, mS/cm
	N	P_2O_5	K_2O		
5,5–6,5	140–250	160–300	180–400	(Fe, Mn, Cu, B, Zn...)	1,0–1,5

CAPACITY, l	PRODUCT CODE	EAN CODE	BALES NUMBER PER PALLET	NUMBER OF PALLETS IN THE TRUCK
70	GP0267	4771306273240	42	30/32
250	GP0428	4771306273691	15	30/32
4000	GP0033		Big bale	24/26

USE: the substrate should be aerated and additionally moistened before sowing and planting. Longer vegetation plants after two three weeks require additional fertilization with complex manure.

PEAT SUBSTRATE **PROFIMIX 3** FOR DECORATIVE PLANTS



Peat substrate for professional use is made of coarse fraction light Sphagnum and black humus – type peat. The peat substrate contains fertilizers, trace elements, which assure proper plant vegetation up to 6 weeks. The present peat substrate is an ideal choice for long term professional agriculture.

Quality indexes					
pH (H_2O)	Nutritional material, mg/l			Microelements	Electrical contuctivity, mS/cm
	N	P_2O_5	K_2O		
4-4.5 or according order	120–170	120–200	150–300	(Fe, Mn, Cu, B, Zn...)	0,9–1,1

PRODUCT	CAPACITY, l	PRODUCT CODE	EAN CODE	BALES NUMBER PER PALLET	NUMBER OF PALLETS IN THE TRUCK
PROFI MIX 3a FOR DECIDUOUS AND CONIFEROUS	70	GP0525		42	30/32
	250	GP0526	4771306273967	15	30/32
	4000	GP0527		Big bale	24/26
PROFI MIX 3b FOR PLANTS IN CONTAINERS	70	GP0528		42	30/32
	250	GP0529	4771306273967	15	30/32
	4000	GP0530		Big bale	24/26

PEAT SUBSTRATES

Product number	Features			Peat structure, %		Additional material	Package
	Salt (g/l)	pH value ($CaCl_2$)	Structure	White	Black		
Universal cultural substrate	1,2–1,8	5,5–6,5	Medium	60	40		10, 20, 70, 250 l, big bale 4 m^3
Substrate PROFI MIX 1a for sowing	0,6–0,9	5,5–6,5	Fine	60	40		20, 70, 250 l, big bale 4 m^3
Substrate PROFI MIX 1b for pitching and cultivation	0,9–1,4	5,5–6,5	Fine	70	30	Clay, pearlite, microelements	70, 250 l, big bale 4 m^3
Substrate PROFI MIX 2a for vegetables cultivation	1,3–1,9	5,5–6,5	Medium	60	40	Clay, humistar, rutter microelements	70, 250 l, big bale 4 m^3
Substrate PROFI MIX 2b for flowers cultivation	1,0–1,3	5,5–6,5	Medium	70	30	Clay, microelements	70, 250 l, big bale 4 m^3
Substrate PROFI MIX 3a for decorative coniferous trees, plants in pots	0,9–1,5	4–5	Medium	80	20	Humistar	50, 70, 250 l, big bale 4 m^3
Substrate PROFI MIX 3a for decorative decidous trees, plants in pots	0,9–1,5	5,5–6,5	Medium	80	20	Humistar	50, 70, 250 l, big bale 4 m^3
Substrate PROFI MIX 3a for azaleas (*Azalea*), rhododendrons (*Rhododendron*) (*Azerka* cultures)	0,3–0,7	4–4,5	Medium to coarse	80	20		50, 70, 250 l, big bale 4 m^3
Substrate PROFI MIX3b for plants in containers	1,3–1,9	5,5–6,5	Coarse	80	20	Clay, long-term fertilizers, microelements	70, 250 l, big bale 4 m^3

JSC DURPETA can produce subtrates according to clients' recipes.
Offer your recipe-we will produce peat substrate together!

SPECIAL substrates	Features			Peat structure, %		Additional material	Package
	Salt (g/l)	pH value ($CaCl_2$)	Structure	White	Black		
Substrate for heaths (*ericae*)	0,2–0,5	4–4,5	Medium	100			70, 250 l, big bale 5 m^3
Substrate for roses (*Rosa*)	0,9–1,5	5,5–6,5	Medium	70	30	Clay, microelements	70, 250 l, big bale 5 m^3
Substrate for pelargoniums (*Pelargonium (Geranium)*)	1,5–2	5,5–6	Medium	70	30	Clay, microelements	70, 250 l, big bale 5 m^3
Substrate for surfinia (*Surfinia*)	1,3–1,9	5,5–6	Medium	60	40	Clay, Fe chelated, microelements	70, 250 l, big bale 5 m^3
Substrate for chrysantemums (*Chryzanthemum*)	1,5–2	5,5–6	Medium	30	70	Long-term fertilizers, microelements	70, 250 l, big bale 5 m^3
Substrate for poinsettias (*Euphorbia*), cyclamens (*Cyclamen*)	0,9–1,5	5,5–6	Medium	80	20	Perlite, microelements	70, 250 l, big bale 5 m^3
Substrate for cactuses (*Cactaceae*), succulents	0,6–1,1	5,5–6,5	Medium	70	30	Sand	10, 70, 250 l, big bale 5 m^3
Substrate for strawberries (*Fragaria*)	0,9–1,5	5,5–6	Medium to coarse	80	20	Humistar, perlite	70, 250 l, big bale 5 m^3
Substrate for cabbage (*Brassica*), lettuce (*Lactuca*)	0,9–1,5	5,5–6	Fine to medium	80	20	Humistar, clay	70, 250 l, big bale 5 m^3
Substrate for mushrooms (*Fungi*)	0,3–0,7	7,5–8,0	Fine	30	70		70, 250 l, big bale 4 m^3

JSC DURPETA can produce subtrates according to clients' recipes.
Offer your recipe-we will produce peat substrate together!

PEAT SUBSTRATE **FOR DECORATIVE PLANTS**

Substrate is intended for growing and care of decorative plants, saplings, shrubs, and improvement of soil. Substrate fraction is medium-coarse.

Quality indexes					
pH (H_2O)	Nutritional material, mg/l			Microelements	Electrical contuctivity, mS/cm
	N	P_2O_5	K_2O		
5,0–5,8	80–150	120–200	150–300	(Fe, Mn, Cu, B, Zn...)	0,8–1,2

CAPACITY, l	PRODUCT CODE	EAN CODE	BALES NUMBER PER PALLET	NUMBER OF PALLETS IN THE TRUCK
50	GP0115	4771306273110	51	30/32
4000	GP0643		Big bale	24/26

USE: the substrate should be aerated and additionally moistened before sowing and planting. Longer vegetation plants after two three weeks require additional fertilization with complex manure.

PEAT SUBSTRATE **FOR RHODODENDRONS AND AZALEAS**

Substrate is intended for plants adapted to more acid environment (rhododendron, azaleas, and etc.), also for soil improvement. Substrate fraction is coarse.

Quality indexes					
pH (H_2O)	Nutritional material, mg/l			Microelements	Electrical contuctivity, mS/cm
	N	P_2O_5	K_2O		
4,2–4,8	80–180	120–250	150–350	(Fe, Mn, Cu, B, Zn...)	1,3–2,0

CAPACITY, l	PRODUCT CODE	EAN CODE	BALES NUMBER PER PALLET	NUMBER OF PALLETS IN THE TRUCK
50	GP0072	4771306273103	51	30/32
4000			Big bale	24/26

USE: the substrate should be aerated and additionally moistened before sowing and planting. Longer vegetation plants after two three weeks require additional fertilization with complex manure.

PEAT SUBSTRATE **FOR CACTUSES**

Substrate is made according to special recipe from eco-friendly peat, a special clay and sand. Used for growing of cactuses (Epiphylium, Schlumberger, Rhipsalidopsis, Melocactus, Mammiliaria, Notocactus, and etc.). Substrate fraction is medium.

Quality indexes					
pH (H_2O)	Nutritional material, mg/l			Microelements	Electrical contuctivity, mS/cm
	N	P_2O_5	K_2O		
5,5–6,5	50–100	100–150	150–200	(Fe, Mn, Cu, B, Zn...)	0,8–1,3

CAPACITY, l	PRODUCT CODE	EAN CODE	BALES NUMBER PER PALLET	NUMBER OF PALLETS IN THE TRUCK
10	GP0133	4771306273165	200	30/32
4000			Big bale	24/26

USE: the substrate should be aerated and additionally moistened before sowing and planting. To water in moderation, but roots should be moistened. Next time to water only when ground has fully dried up.

PEAT SUBSTRATE **FOR INDOOR FLOWERS**

Substrate is intended for planting and growing of flowers, also for improvement of soil. Substrate fraction is medium.

Quality indexes					
pH (H_2O)	Nutritional material, mg/l			Microelements	Electrical contuctivity, mS/cm
	N	P_2O_5	K_2O		
5,8–6,3	100–150	120–200	150–300	(Fe, Mn, Cu, B, Zn...)	0,8–1,2

CAPACITY, l	PRODUCT CODE	EAN CODE	BALES NUMBER PER PALLET	NUMBER OF PALLETS IN THE TRUCK
20	GP0134	4771306273141	120	30/32
4000			Big bale	24/26

USE: the substrate should be aerated and additionally moistened before sowing and planting. The first fertilization of plants with complex manure should be done after three weeks since the planting date, later repeated by intervals from 1 to 2 weeks.

PEAT SUBSTRATE **FOR FLOWERS**

Substrate is intended for indoor, porch and wild flowers growing. Substrate fraction is medium.

Quality indexes					
pH (H_2O)	Nutritional material, mg/l			Microelements	Electrical contuctivity, mS/cm
	N	P_2O_5	K_2O		
5,5–6,5	100–250	120–300	150–400	(Fe, Mn, Cu, B, Zn...)	1,0–2,0

CAPACITY, l	PRODUCT CODE	EAN CODE	BALES NUMBER PER PALLET	NUMBER OF PALLETS IN THE TRUCK
10	GP0086	4771306273080	200	30/32
20	GP0265	4771306273257	120	30/32
4000			Big bale	24/26

USE: the substrate should be aerated and additional moistened before sowing and planting. Longer vegetation plants after two three weeks require additionally fertilization with complex manure.

PEAT SUBSTRATE **FOR PORCH FLOWERS**

Substrate is intended for planting and growing of thick blooming flowers (petunias, pelargonium's, fuchsias, surfinias, and etc.) additionally has iron supplement securing from chlorosis. Substrate fraction is medium.

Quality indexes					
pH (H_2O)	Nutritional material, mg/l			Microelements	Electrical contuctivity, mS/cm
	N	P_2O_5	K_2O		
5,5–6,5	100–200	120–250	150–400	(Fe, Mn, Cu, B, Zn...)	1,7–2,0

CAPACITY, l	PRODUCT CODE	EAN CODE	BALES NUMBER PER PALLET	NUMBER OF PALLETS IN THE TRUCK
20	GP0135	4771306273158	120	30/32
4000			Big bale	24/26

USE: the substrate should be aerated and additionally moistened before sowing and planting. The first fertilization of plants with complex manure should be done after three weeks.

UNIVERSAL PEAT SUBSTRATE

Universal Substrate is intended for growing various vegetables' sprouts and ground improvement. Substrate is made according to special recipe from eco-friendly peat, enriched with nutritional supplements and microelements. Peat fraction is medium.

Quality indexes					
pH (H_2O)	Nutritional material, mg/l			Microelements	Electrical contuctivity, mS/cm
	N	P_2O_5	K_2O		
5,8–6,5	100–250	120–300	150–400	(Fe, Mn, Cu, B, Zn...)	1,0–1,5

CAPACITY, l	PRODUCT CODE	EAN CODE	BALES NUMBER PER PALLET	NUMBER OF PALLETS IN THE TRUCK
10	GP0029	4771306273073	200	30/32
20	GP0264	4771306273233	120	30/32
70	GP0267	4771306273240	42	30/32
4000	GP0033		Big bale	24/26

USE: the substrate should be aerated and additionally moistened before sowing and planting. Longer vegetation plants after two three weeks require additional fertilization with complex manure.

PEAT SUBSTRATE **FOR GROWING TOMATOES AND PEPPERS**

Substrate is intended for sowing of tomatoes' and peppers' seeds, growing of sprouts and improvement of hothouse ground. Substrate is made according to special recipe from eco-friendly peat. The substrate is porous, well-absorbs water, and keeps moisture. Manure and microelements are selected so that the plants could easily assimilate them and fully satisfy their bioenergetics needs. Plants grow excellently planted in the substrate, bigger yield is obtained. Substrate fraction is medium.

Quality indexes					
pH (H_2O)	Nutritional material, mg/l			Microelements	Electrical contuctivity, mS/cm
	N	P_2O_5	K_2O		
5,5–6,5	100–250	120–300	150–400	(Fe, Mn, Cu, B, Zn...)	1,0–2,0

CAPACITY, l	PRODUCT CODE	EAN CODE	BALES NUMBER PER PALLET	NUMBER OF PALLETS IN THE TRUCK
20	GP0146	4771306273189	120	30/32
4000			Big bale	24/26

USE: the substrate should be aerated and additionally moistened before sowing and planting. Plants after two three weeks require additional fertilization with complex manure.

PEAT SUBSTRATE **FOR VEGETABLES**

Substrate is intended for growing vegetables (cucumbers, tomatoes, peppers and etc.). Peat fraction is medium.

Quality indexes					
pH (H_2O)	Nutritional material, mg/l			Microelements	Electrical contuctivity, mS/cm
	N	P_2O_5	K_2O		
5,8–6,2	100–250	120–300	150–400	(Fe, Mn, Cu, B, Zn...)	0,9–1,4

CAPACITY, l	PRODUCT CODE	EAN CODE	BALES NUMBER PER PALLET	NUMBER OF PALLETS IN THE TRUCK
70	GP0337	4771306273349	42	30/32
4000			Big bale	24/26

USE: the substrate should be aerated and additionally moistened before sowing and planting. Longer vegetation plants after two three weeks require additional fertilization with complex manure.

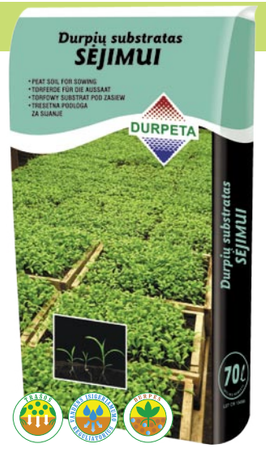
PEAT SUBSTRATE **FOR PLANTING AND ARRANGEMENT OF CEMETERY**

Substrate is intended for planting, arrangement of cemetery, grass, flower growing and soie improvement Substrate fraction is fine.

Quality indexes					
pH (H_2O)	Nutritional material, mg/l			Microelements	Electrical contuctivity, mS/cm
	N	P_2O_5	K_2O		
5,5–6,2	100–200	150–250	170–340	(Fe, Mn, Cu, B, Zn...)	1,0–1,5

CAPACITY, l	PRODUCT CODE	EAN CODE	BALES NUMBER PER PALLET	NUMBER OF PALLETS IN THE TRUCK
20	GP0145	4771306273172	120	30/32
50	GP0088	4771306273097	36	30/32
4000			Big bale	24/26

USE: the substrate should be aerated and additionally moistened before sowing and planting. Longer vegetation plants after two three weeks require additional fertilization with complex manure.



PEAT SUBSTRATE **FOR SOWING**

Substrate is for sowing seeds, growing different vegetables, growing of sprouts and hothouse ground improvement. Peat fraction is fine.

Quality indexes					
pH (H_2O)	Nutritional material, mg/l			Microelements	Electrical contuctivity, mS/cm
	N	P_2O_5	K_2O		
5,5–6,5	100–250	120–300	150–400	(Fe, Mn, Cu, B, Zn...)	0,6–0,9

CAPACITY, l	PRODUCT CODE	EAN CODE	BALES NUMBER PER PALLET	NUMBER OF PALLETS IN THE TRUCK
20	GP0062	4771306273332	120	30/32
70	GP0336	4771306273325	42	30/32
250	GP0430	4771306273714	15	30/32
4000			Big bale	24/26

USE: the substrate should be aerated and additionally moistened before sowing and planting. Plants after two three weeks require additional fertilization with complex manure.

SOIL **FOR GRAVES TRIMMING**

Soil for graves trimming is produced high segmentation peat. It is used as decorative material for graves trimming, clearing and decoration. Substrate fraction is fine.

Quality indexes					
pH (H_2O)	Nutritional material, mg/l			Microelements	Electrical contuctivity, mS/cm
	N	P_2O_5	K_2O		
5,5–6,2	100–200	150–250	170–340	(Fe, Mn, Cu, B, Zn...)	1,2–1,5

CAPACITY, l	PRODUCT CODE	EAN CODE	BALES NUMBER PER PALLET	NUMBER OF PALLETS IN THE TRUCK
10	GP1293	4771306273998	200	30/32
50	GP0335	4771306273653	36	30/32
4000			Big bale	24/26

USE: the substrate should be aerated and additionally moistened before sowing and planting. Longer vegetation plants after two three weeks require additional fertilization with complex manure.

PEAT SUBSTRATE **FOR LAWN**

Substrate is used for growing of lawn, lawn equipment, stadiums, sports grounds, golf courses, parks, apartment houses and individual, lawn grasses, installation of public recreational facilities etc. The substrate perfectly absorbs water to roots zone, detains the optimum amount of water, significantly reduces fertilizer leaching into the environment, gradually gives plants nutrients and water. Substrate fraction is fine.

Quality indexes					
pH (H_2O)	Nutritional material, mg/l			Microelements	Electrical contuctivity, mS/cm
	N	P_2O_5	K_2O		
5,5–6,5	100–150	120–160	150–160	(Fe, Mn, Cu, B, Zn...)	1,0–1,4

CAPACITY, l	PRODUCT CODE	EAN CODE	BALES NUMBER PER PALLET	NUMBER OF PALLETS IN THE TRUCK
70	GP0515	4771306273813	42	30/32

USE: to set new winds, 10-20% of soil is replaced by the same amount of substrate. The substrate is added to the 5-15 cm depth. Lawn fertilization is added - according to need.

PEAT SUBSTRATE **EKODURPETA** (UNIVERSAL)

High-quality peat substrate, is made from neutralized peat, which is certified by State Enterprise "Ekoagros" (certificate Reg. Nr. 05266 TP). Substrate is a certified organic additive's, which ensure the proper growth of vegetation up to 6 weeks. This peat mixture is ideal product for organic farming development. Substrate fraction is medium.

Quality indexes					
pH (H_2O)	Nutritional material, mg/l			Microelements	Electrical contuctivity, mS/cm
	N	P_2O_5	K_2O		
5,5–6,5	80–120	110–150	150–160	(Fe, Mn, Cu, B, Zn...)	1,0–1,2

CAPACITY, l	PRODUCT CODE	EAN CODE	BALES NUMBER PER PALLET	NUMBER OF PALLETS IN THE TRUCK
50	GP0516	4771306273837	51	30/32

USE: the substrate should be aerated and additionally moistened before sowing and planting.

DECORATIVE **MULCH**

Decorative mulch is a great decorative tool for your environment promotion. Mulch retains moisture in the soil, retains 60 % water. Protects roots from seasonal temperature fluctuations, maintaining a higher temperature in winter and lower – in summer. Penalizes weed growth, opaque to light. Protects soil from erosion, preventing rain washed, and the wind taking away particles. Allows roots to breathe more easily, while retaining the soil friable.
USE: First, carefully eradicate weeds in plants beds and areas and rake the ground smooth. Cover the ground with mulch 2–5 cm thick. Before use the mulch, we recommend plants: Rhododendrons, once manure nitrogen fertilizers. Add a layer 2–3 cm of mulch after 2–3 years. Made from deciduous trees (0–30 mm) wood, which is milled, sieved and colored.
Impact is protecting the ground from water dry and erosion, pH – neutral.
Time of use all year long.
Colors: brown, brick red.

Mulch in the garden

Mulching

Mulching protects plants from negative effect of the temperature. In winter it protects the roots from sudden cold spell, temperature variations, in spring – from frost. In summer, on the contary, during the sunny days it keeps cooller and more comfortable soil temperature for plants. Some of the inorganic mulches (e.g. stones, sand) are used as heat accumulator.
Mulch controls the moisture of the soil. Evaporation of the soil is reduced, after the watering or raining the moisture reserve is saved in the soil, therefore the moisture stays into the soil for longer.
The material reduce germination and growing of weed.
It makes the protective layer, which reduces soil water and wind erosion (destruction, flush).
Mulch also helps to secure the airing of the soil, improves the structure, reduces the possibilities for soil crust formation. Some of the mulches, have a feature to make the crust by itself after the deep soak and quick drying. The crust let the water to drain away, however, it's very easy to degrade mulch crust.
It increases the resistance to deseases, doesn't make favourable conditions for pests breeding. Moreover, it makes better conditions for useful bacterium of the soil breeding and acting.
Mulch will help you to create beautiful surrounding and give it a perfect view. Very often decorative details are the main issue in homesteads and villages.

Materials

According to origin, materials of mulching are devided into two groups – organic and inorganic. Organic materials are as following: peat, bark, wood chips, grass, leaf, thorns, compost, sawdust, peels, shells, muck, straw. Inorganic materials – macadam, clay, grit, plastic, even recycled tyres and paper waste.

Surface preparation

First of all, the mulching zone is estimated. If it is wanted to mulch separate tree or bush, it is needed to draw the circle, which size should be half of crown, round its trunk. The mulch wich surrounds conifers can be even larger then crown considering future growing. In case of using decorative mulch it is recomended to dig out 5-10 cm of surface in that zone, borders should be strengthen by swad border. Area for mulching for the groups of plants usualy covers all area of the group and is equal the crown projection in the ground of grown plants. It is very important to preserve the surface roots of conifers in process of preparing the soil for conifers' mulching.
Before mulching the surface of the soil is prepared as following: perennial weeds are erased by herbicide, yearling weeds are weed out. If the low nutrient mulch is used, it is necessary to add complex fertilizers (standard – 30 g/m^2), long effect fertilizers are recommended (if the substrate is used it's not needed to fertilize additionaly). The soil is watered, plumped up. The consumption of mulch is 50l/1 m^2, 5 cm thick.
If the layer of mulch is too thick it will increase expenditure and can damage the plants, if too thin, it will have no proper effect.

Time

An optimal time for mulching depends on the targets you want to reach. If the target of mulching is to protect plants from winter freeze or spring frost, the best time for mulching is late autumn. It is recommended to wait until the fisrt freeze, that the surface of the soil would be cold, and gnawers woudn't search cosy place for their home. In spring mulching process begins when the soil is warm enought, but the moisture has not been evaporated yet. Optimal time – the middle of April. The layer of mulch can be replenished, when the soil is fully warm - whenever during the summer time. However, it is important not to add too much of mulch.
Decorative mulch is spread during the planting period.

Problems

Thick layer of mulch can store much of moisture therefore it can have negative effect on surface roots. Roots can start to decay. If it is too much of moisture, usually it is a problem of too thick layer of mulch.
Many of mulches are not pH neutral. Natural peat, fresh grass, leaf, bark increase the acidity of the soil. For some plants, especially for conifers, rhododendrons acid soil is needed, however for many other plants it is not suitable.
During the period of anaerobic fermentation some emited materials can be toxic for plants, it can even kill the plant. This process can be recognized because of specific smell. Airing and transfer of mulch can solve this problem.

GROWING GROUND **FOR ORCHID**

Mixture is made from high quality pine bark according to Austrian recipe, characterized by excellent air permeability.
Composition: pine bark (not less than 80%), agro-pearlite, fibres of sphagnum moss.
Usage: It is necessary to aerate and additionally moisten the substrate before plant repotting.
Advices: root area should remain moist, do not keep water in the pot – it stimulate decay of the plant's root. Orchid likes warm climate, therefore the temperature of the day should be at least +18°C. Avoid differences in temperature. Orchid Phalaenopsis needs to be repotted once a year straight after blooming. **Volume** – 5 l.

Quality indexes					
pH (H_2O)	Nutritional material, mg/l			Microelements	Electrical contuctivity, mS/cm
	N	P_2O_5	K_2O		
5,5-6,5	80–120	120–200	140–240	–	0,8–1,2

CAPACITY, l	PRODUCT CODE	EAN CODE	UNITS PER PALLET	NUMBER OF PALLETS IN THE TRUCK
5	GP0888	4771306273943	300	30/32

SUBSTRATE **FOR POTHERBS**

Growth medium is for growing medicinal and potherbs. Substrate is made from high fragmentation and medium rough humous peat and organic fertilizer.
All components, which are used in substrate production meet all requirements for ecological production and are produced under EU regulation EEB 834/2007 and 889.2008 1.
Usage: It is necessary to aerate and additionally moisten the substrate before planting or sowing.
Advices: do not forget to put some drainage stones in the pot before potting the plant. Plants with the biggest roots should be planted in the middle of the pot. The best temperature for potherbs growing is 15-20°C. During the warm season, ventilate the room as often as possible. During the cold season protect herbs from frost and draughts. **Volume** – 5 l.

Quality indexes					
pH (H_2O)	Nutritional material, mg/l			Microelements	Electrical contuctivity, mS/cm
	N	P_2O_5	K_2O		
5,5-6,5	100–120	150–250	150–300	–	0,8–1,2

CAPACITY, l	PRODUCT CODE	EAN CODE	BALES NUMBER PER PALLET	NUMBER OF PALLETS IN THE TRUCK
5	GP0902	4771306273950	300	30/32

LUMP PEAT FUEL

Lump peat fuel is produced from intermediate type of peat with segmentation level, not lower than 25%. This solid fuel is easily combusted, can be used in solid fuel boilers, fireplaces etc. It is also one of the cheapest fuels in Lithuania. Coal (up to 65%) and oxygen (up to 30%) prevail in the chemical formula of this peat. Lump peat may be divided into lumps of various dimensions (e.g. 300x130x110 mm) and may contain up to 10% particles. Lump peat fuel is harvested at Pabalvė, Šepeta, Aliai, Kalniškiai and Lebeliai peatbogs.

QUALITY INDEXES	
Fuel moisture content, % up	40
Dry mass ash content, % up	9
Calorific value, kcal/kg	2500–3700
Small particles not more than , %	10

PACKAGE	
Big bale	1 m^3
Loose	m^3

PEAT FUEL **SEMIBRIQUETTES**

Peat fuel semibriquettes are regarded as solid fuel of excellent quality and are produced from low-marshy crumbled peat of high segmentation. Raw material for peat semibriquettes is harvested at Pabalvė peatbog, which is probably the only bog in Lithuania where peat moss contains such a high level of heat. The peat is dried up to 22% of moisture; then pressed into semibriquettes of fine forms (180 x 80 x (30–70) mm).

QUALITY INDEXES	
Fuel moisture content, % up	20
Dry mass ash content, % up	11
Calorific value, kcal/kg	3050–4050
Small particles not more than , %	7

PACKAGE	
Big bale	1 t
Pallet	Up to 1 t
Loose	t

CRUMBLED PEAT FUEL

Crumbled peat fuel is produces by crumeling peat bog layers surface, after that leaving outside to dry. Then the peat should be picked into caravans. Crumbled peat moss can be used for heating by industrial boilers and boiler-houses.

QUALITY INDEXES	
Fuel moisture content, % up	40
Dry mass ash content, % up	9
Calorific value, kcal/kg	2500–3500