



BIOVERMIX
FERTILIZER MANUFACTURING COMPANY
PRESENTS

BIOTEX



BioTeX is a needle-punched material, between the layers of which is a mixture of seeds of perennial herbs and organic or mineral fertilizers.

There are 2 types available:

1 type has the structure of a two-layer fabric consisting of natural linen fibers, which, rotting, creates favorable conditions for the growth of herbaceous vegetation;



Needle-punched material made of natural linen fibers

Type 2 has the structure of a two-layer web consisting of: the upper layer is synthetic fibers, the lower layer is natural linen fibers, the lower layer is a biodegradable part of the base that is absorbed in the soil, and the non-decomposing synthetic part of the base is preserved as a reinforcing soil-soil layer;



A mixture of seeds of perennial herbs, organic or mineral fertilizers

The seed mixture is selected based on the climatic and soil conditions of BioTeX application. The main field of application of BioTeX is to protect the surface from erosion and restore vegetation cover. This material is a good initial protection against rain and wind.

Scope of application and installation of BioTeX

BioTeX is used to quickly restore the disturbed soil and vegetation layer and protect ground surfaces from erosion and erosive destruction of slopes of roads and railways; it is also used for coastal protection; landscaping of slopes, quarries, oil and gas pipelines, etc.

Traditionally used blackening of soils by the method of hydraulic sowing, as practice shows, is ineffective. On the slopes, the seeds of sown grasses are quickly washed away by surface waters, blown away by the wind and destroyed by birds even before germination and rooting. In addition, the young vegetation cover for the first 1-2 years, not having sufficient density and power of the root system, is not able to protect soils from erosion. To fertilize the plant, it requires the supply of peat and the creation of a peat - soil layer, periodic fertilization.



In this regard, as practice shows, in order to create a uniform vegetation cover over an area, additional annual sowing of grasses ***is required for 2-4 years***. At the same time, during the period of restoration of a stable soil and vegetation layer, the soil surface ***is not protected*** from erosion processes in any way. Taking into account that the priority task is efficient, fast and high-quality construction and reconstruction of facilities under construction with the lowest material costs, easy-to-use, technically and economically profitable materials are required. ***BioTeX is a very effective material for protecting slopes in this regard.***



The installation of BioteX is quite simple and does not require special skills, equipment and tools.



For laying linen BioTeX, first of all, the slope surface is prepared (simple alignment or layout). It is recommended to use seeds intended for your region.

Next, BioTeX is laid on the prepared surface of the slope. ***(Please note that the biotech is in close contact with the ground)***. In the case of stones or waste, it is necessary to clean the soil surface of them before laying BioTeX.

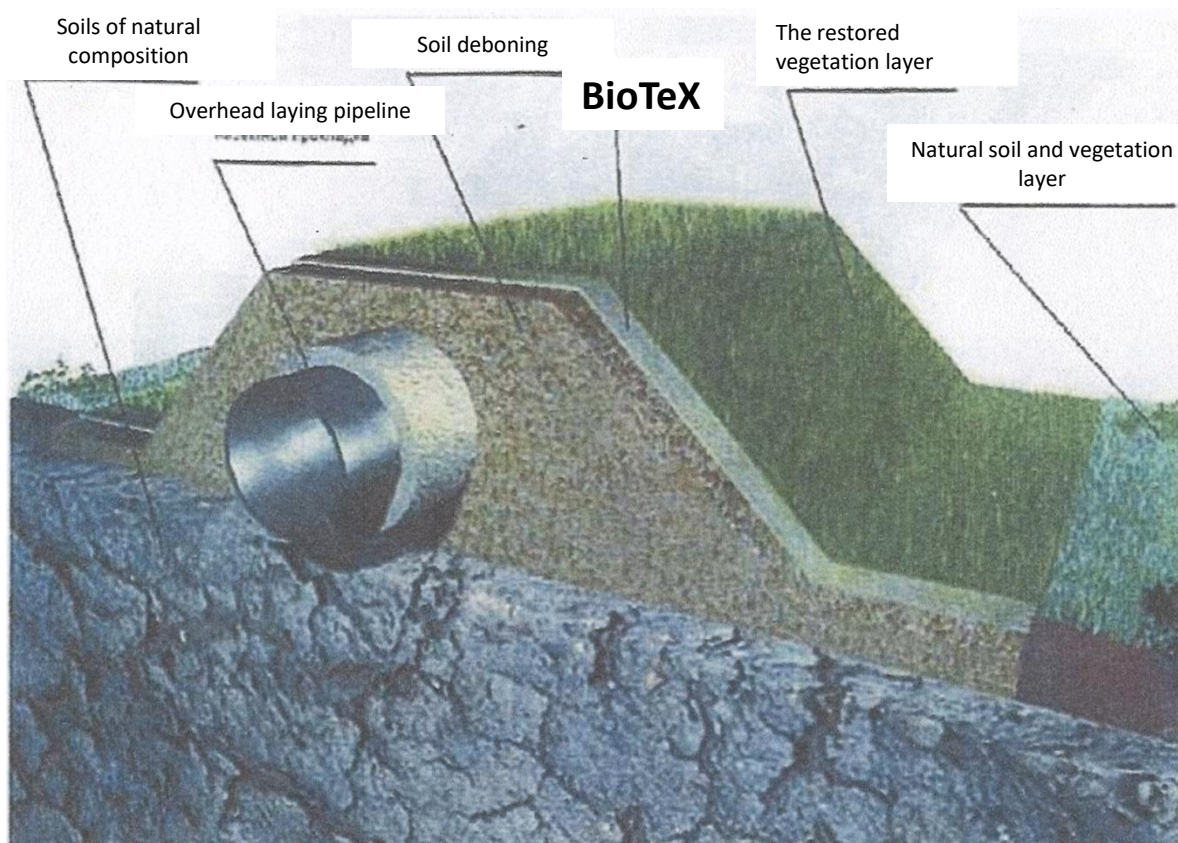
Otherwise BioTeX will not perform its function as it used to.

It is necessary to cut a piece of BioTeX 10-20% longer than the slope and spread it on the slope. The longer end should be at the top. To achieve a good result, you should superimpose the vertical edges of the canvases one on top of the other by 20 cm in width, and the transverse ones by 20-30 cm (roofing style). The overlap of the edges should be made against the main direction of wind and rain flows.

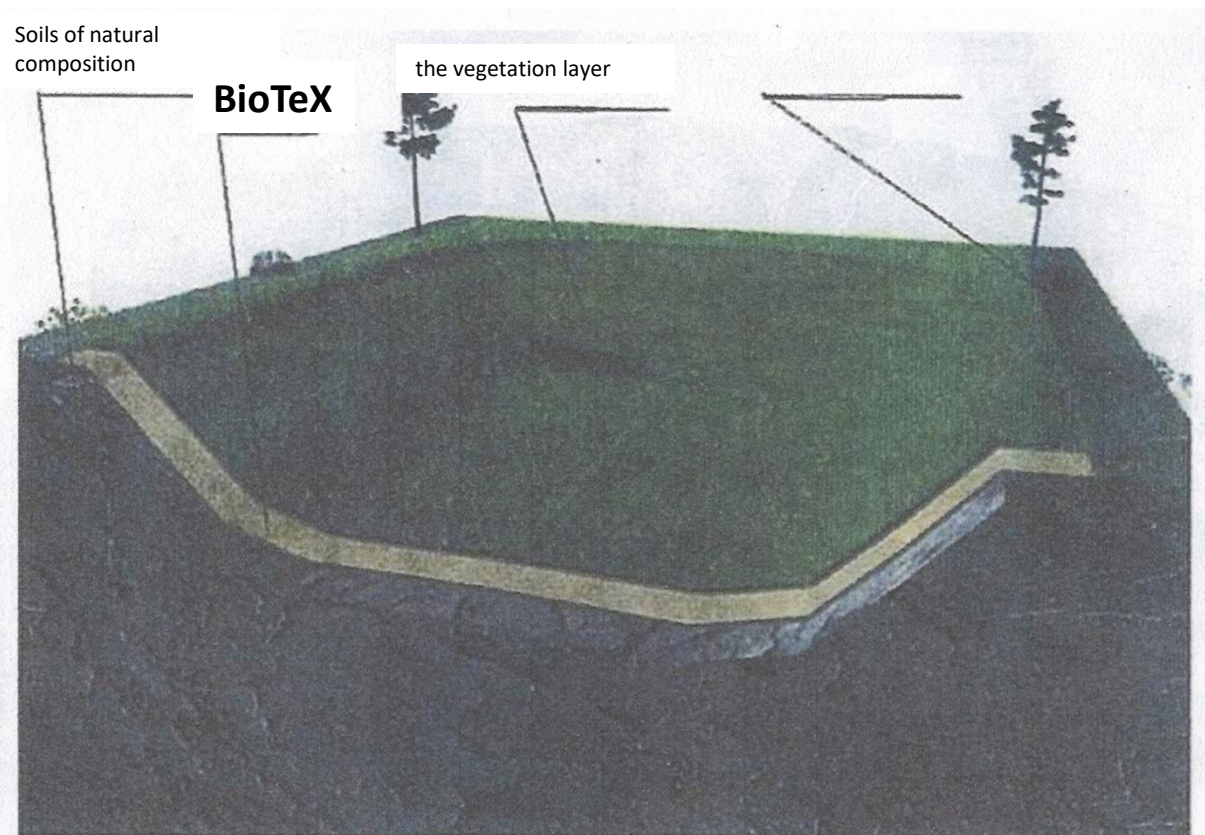
After laying Bio Tech, it is sprinkled with finely lumpy loamy soil or sandy. The thickness of the powder is 10-20 mm

BioTeX is produced and supplied in rolls, which ensures ease of laying the material: it is enough to roll out the roll along the slope with overlapping adjacent layers, fix the BioTeX with special staples with a certain step. The canvas should be carefully attached, especially in the hollows.

If necessary, more staples are used.



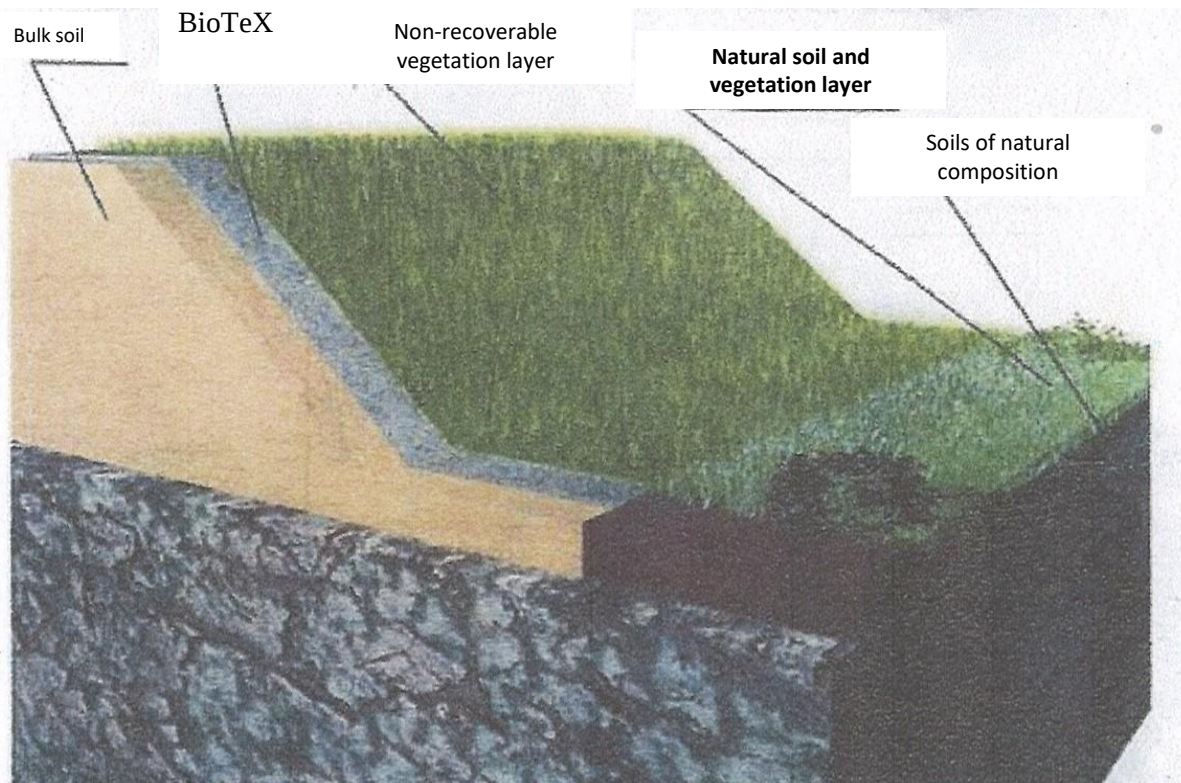
Overhead laying pipeline



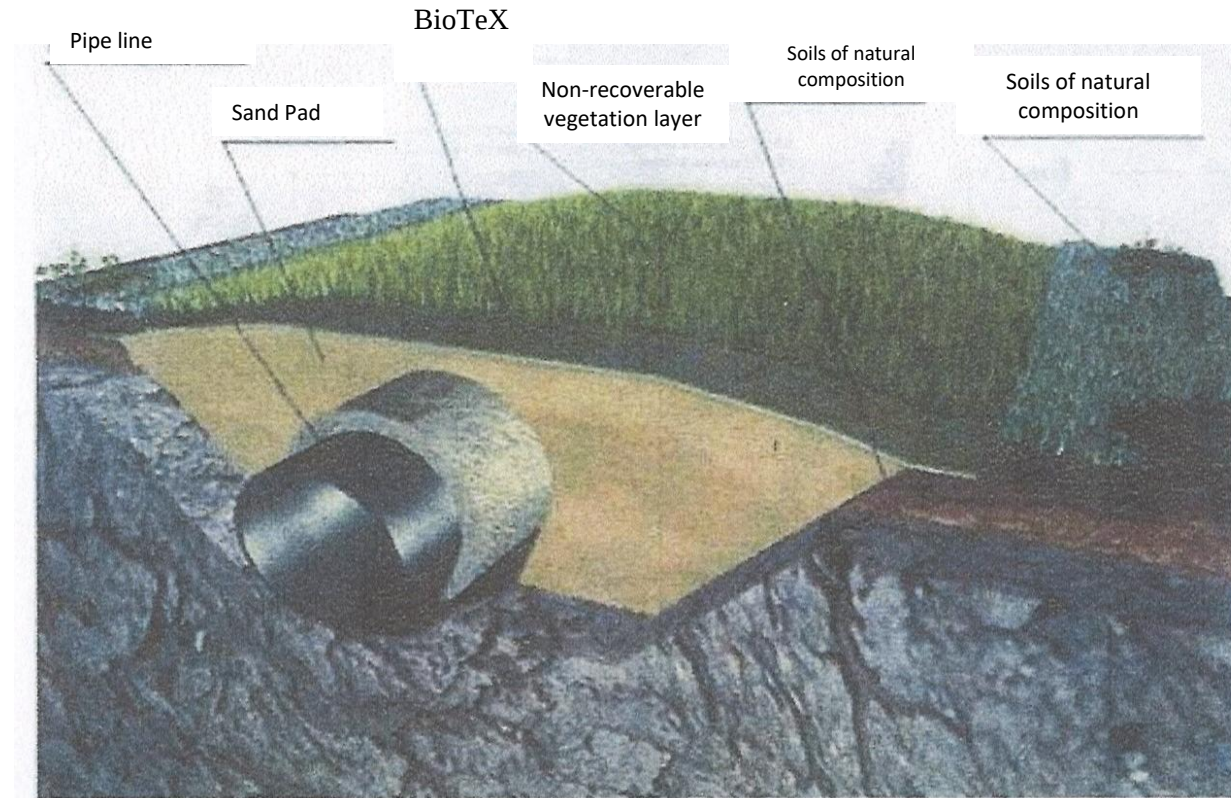
Quarry

The use of BioTeX makes it possible to restore the soil and vegetation layer during the first summer *season without laying a fertile soil layer* and subsequent sowing of herbs during the following years, which simplifies construction and technical reclamation, reduces their cost and the cost of maintenance.

Laboratory studies confirm that even without laying BioTeX on the ground for **15-20 days**, at an air temperature of 15 C degrees Celsius, **high-quality plant germination is ensured**. The construction organization must take into account climatic conditions, which are divided into four climatic regions (I. II. III. IV). The climatic region is located on the territory of the Russian Federation (I. II. III.) in Transcaucasia, Crimea and Central Asia. The climatic regions are located from north to south, approximately I – up to 70 ° north latitude, II – up to 60° , III – up to 45 ° , IV below 45 ° .



Embankment slope



Underground laying pipeline

Climatic areas for the use of BIOTEX

Climatic regions	BioTeX	The average monthly air temperature in January, C°	The average monthly air temperature in July, C°
I	BTX/130	-14 below -28	from 0 до +21
II	BTX/100	from -3 to -20	from +8 до +21
III	BTX/80	from -5 to -20	from +21 до 27
IV	BTX/60	from -12 to +6	Higher +31

Physical properties of BioTex

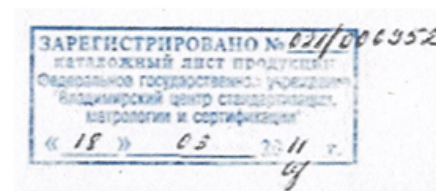
№ п/п	Name of indicators	Brand of materials			
		BTX/60	BTX/80	BTX/100	BTX/130
1	Surface density, g/m ²	630+50	650+52	670+54	700+56
2	Width of the material, cm	165+1	165+1	165+1	165+1
3	Material thickness, cm	0,4+0,05	0,5+0,05	0,6+0,05	0,7+0,05
4	Roll length per roll, m	25	25	25	25

30. ХАРАКТЕРИСТИКА ПРОДУКЦИИ.

Распространяются на нетканый многослойный материал БиoТек (из натуральных льняных волокон), между слоями которого внедрена смесь семян и удобрений, предназначенный для укрепления грунтовых поверхностей и восстановления почвенно-растительного слоя.

№ п/п	Наименование показателей	Марка материалов			
		БК/60	БК/80	БК/100	БК/130
1.	Поверхность плотности, г/м ²	630 ⁺⁵⁰	630 ⁺⁵²	630 ⁺⁵⁴	700 ⁺⁵⁶
2.	Ширина материала, см	165 ⁺¹	165 ⁺¹	165 ⁺¹	165 ⁺¹
3.	Толщина материала, см	0,4 ^{+0,05}	0,5 ^{+0,05}	0,6 ^{+0,05}	0,7 ^{+0,05}
4.	Длина рулона в рулоне, м	25	25	25	25

		Фамилия	Подпись	Дата	Телефон
Представил	04	Шахинова Т.В.	<i>Шахинова</i>	18.05.2011	(49233)2-47-39
Заполнил	05				
Зарегистрировал	06	Гуткина Т.Б.	<i>Гуткина</i>	18.05.2011	14922/5+32/18
Ввел в каталог	07				



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