

# The Importance Of Geosetka In Increasing The Strength Of Roads

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**Annotation:** This article discusses issues such as the use of geosets to increase the strength of highways, information about geosystems, the use and research of geosystems in construction.

**Keywords:** geogrid, road floor, trestle, basalt.

## I. Introduction

There are a number of problems and shortcomings in the system of state management of the road sector of the republic, which hinder the formation of a competitive environment and investment in the sector. In order to create a modern competitive system of road management, clear delimitation of control and economic functions, de-monopolization, attract private sector enterprises and increase investment attractiveness, create a healthy competitive environment, widely introduce innovations in road construction, Also, in accordance with the objectives of the Action Strategy for the five priority areas of development of the Republic of Uzbekistan for 2017-2021, on December 9, 2019, the President of the Republic of Uzbekistan issued a decree "On measures to deep reform the road sector of the Republic of Uzbekistan." The Resolution "On measures to improve the management system of the road sector" and the Resolution "On measures to further improve the management system of the road sector" were adopted. Of course, road construction will play an important role in the development of the country. There are options to build roads with asphalt or cement concrete pavements.

## II. The main part

No matter how strong the cement-concrete pavement is, if the geology of the road construction site is complex, the pavement is also samaris. In this regard, a new technology to increase the service life of asphalt concrete and cement concrete pavements, to build them even in complex climatic conditions is a geosystem. Geosets made of a certain material act as carcass reinforcement in the concrete mix when building a house. It is mainly used in inconvenient and difficult places, where a defect occurs when the road passes through it.



**Figure 1.** Defects that can be observed on highways.

If roads need to be built in a similar environment and have a long service life, artificial structures such as overpasses are also used in urban areas. However, due to the high cost of construction of the pier, the most effective method is to use a geosystem.

The geosystem is used in swampy, cartilaginous, subsidence and pass areas of the road, serpentines. Of course, if the pavement is well worked, it will work well. Unfortunately, roads are not built only on straight, level and solid ground. Roads go through various difficulties and are built in order to reach the destination faster. The geosynthesis is used in the construction of the roadbed and helps to prolong the life of the road.

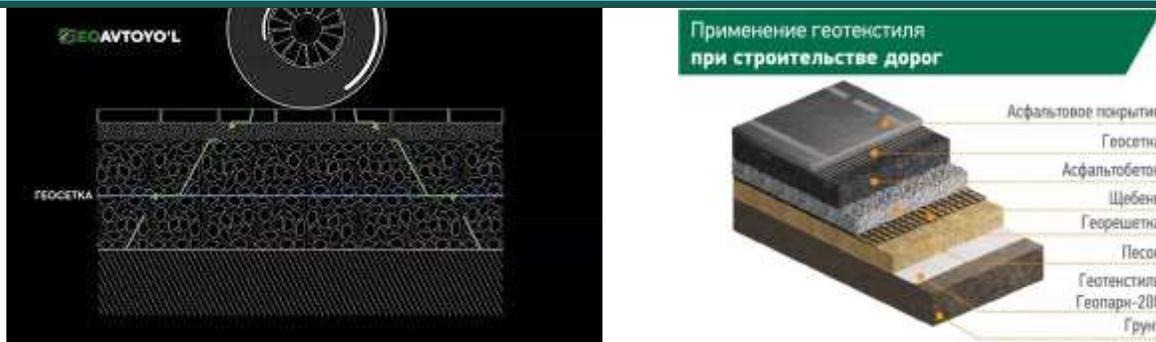


Figure 2. The use of geosetting to increase the strength of roads

Geosynthetic raw materials can be basalt, steel, plastic. Of course, it depends on the construction conditions and technology. Asphalt roads can last up to 10-15 years, and with this geosystem it will last up to 20-25 years if the asphalt pavement is of good quality. Similarly, if cement-paved roads last up to 50 years, this geosystem will significantly extend its service life. Of course, the quality of the coating and the quality of the construction technology are also very important here.

### III. Summary section

In building roads that are comfortable and reliable, we need to keep pace with the times and follow the example of road engineers from developed countries. Because they have a reputation for working hard, not for big salaries, but for the prosperity and development of their country. If we, the passengers, seriously and conscientiously do the work of road design, construction and operation, thinking about the fate of the country, our roads will be smooth and durable. If we apply foreign experience in the design, construction and operation of highways, we will be among the developed countries, not the developing ones. To do this, we must work tirelessly to build our roads to be sustainable and long-lasting, and to use innovative ideas such as geosystems. Roads are the lifeblood of this country. For the state to prosper, the roads must prosper.

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