



SOIL STRENGTHENED BY CEMENT WITH ADDING OF DIFFERENT COLOR PIGMENTS

Designation

The soil strengthened by cement with adding of different color pigments is intended for the construction of sidewalk pavements, bicycle paths and wearing courses of the IV-V categories highways.

The main advantages of the development

One of the main factors affecting the emotional state of people living in settlements, as well as in the “driver-car-road-environment” system is the color design of the environment. Addition of the colored pigments to the soil that is reinforced by cement will give additional positive feelings in the perception of the house space of modern urban development and landscape design. Minimization of costs for transportation of conditioned road construction materials. The use of technology to reinforce soil with adding of color pigments in road pavements in specific regions of Ukraine that don't have their own reserves and mining of rock materials.

Essence of development

Reinforced soils are cheaper than imported conditioned road construction materials, and the layers of pavement that are constructed by using them are not inferior in strength compared to analogues.

Market demand

The use of reinforced soils by cement with the adding of colored pigments has a positive effect on reducing the cost of construction by saving conditioned construction materials

State of intellectual property protection

State of development readiness

Experimental samples were made and tested, methods of control of technological and physical-mechanical characteristics of soil reinforced by cement with adding of colored pigments were also developed and tested.

