

ABSTRACT

PAVING METHOD OF WATER-PERMEABLE CONCRETE

Described is a paving method of fine water-permeable concrete which can be used for roadways, sidewalks, bikeways, parking lots, public squares, etc. A base layer of water-permeable concrete is paved by spreading and pounding a sand filter layer and a rubble base layer on the consolidated ground to have porosity after pounding of 10-20% and a coefficient of water permeability of more than 10×10^{-2} cm/sec. A mixture of crushed waste glass, fine rubble, 250-500 kg/m³ of cement, water at a water-cement ratio of 25-40%, and a polymer in an amount of 10-50% of the weight of cement used based on 50% solid material is spread on the base layer and pounded. The concrete is aged for more than one day, a mixture of a polymer and water was sprayed on the base layer to be absorbed, after which aging is done to complete the construction.

FIGURE 2