

## **THE APPLICATION OF COLD ASPHALT RECYCLING AS A FACTOR OF THE ENVIRONMENTAL PROTECTION**

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### **ABSTRACT**

It is possible to reuse by 100% the old asphalt road which was damaged by ruts and cracks for the production of asphalt mixes for road surfaces and roadbase of carriageways for the roads with light and very light traffic volume by the process of cold recycling. The old asphalt material (by – product) is very valuable from the environmental and economic aspect, which allows the savings and more important, the environment protection by its reuse, because there is not a pollution from mineral mix and bitumen evaporation, taking into account that the production process of recycled asphalt is taking place at the ambient temperature.

The process of cold recycling consists of the dosage of three fractions of screened old asphalt with the addition of one fraction of new aggregate as well as the addition cationic bitumen emulsion and 1 – 2% of cement. The paper is revealing the practical experience in cold asphalt recycling procedure.

**KEY WORDS:** Recycled asphalt, bitumen emulsion, asphalt plant, environment