

INFLUENCE OF THE NATURE OF THE AGGREGATES ON THE STABILITY OF BITUMINOUS MIXTURES

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ABSTRACT

Extending the service life of asphalt pavements is a function of the stability of the various constituent material mixtures prepared to make the pavement structure.

The methods of pavement do not take into account the nature of the aggregates, although the characteristics of the aggregates have an influence on the behavior of bituminous materials by their mineralogical nature, their mechanical properties and their geometrical characteristics.

Bituminous mixtures used in this study are made with aggregates from several deposits at different quarries. The different samples of bituminous mixtures with different aggregates are submitted to a series of laboratory dry and wet tests.

This study allowed us to observe and determine the influence of each of the intrinsic properties of aggregates on the strength and stability of asphalt studied.

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