

Studi of expansive concrete - preliminary studi for the use in roadway construction

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Abstrak

The use of the expansive cements to minimize the effects of the shrinkage is still little studied. Concrete, which is known for its durability, could not be implemented directly in concrete roadways construction. One of the biggest problems is shrinkage which occurs since it is in the paste concrete form. Shrinkage induced to cracking is not preferable in the roadways construction, which usually use the system of reinforced concrete and joint separating system. We will consider the expansive cement as one of the solution to reduce the effect of the shrinkage. The expansion of the concrete during its hardening state is studied to compensate the shrinkage effect. This study is based on preliminary study on existing method of expansive cement, designing a measure apparatus, which we will use later for future testing, and the possibility of using the expansive cement in the roadways construction.