

عنوان مقاله:

Effect of cement consumption on durability properties of concrete against alkali reactions

محل انتشار:

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خلاصه مقاله:

According to the abundant use of engineer and factor designer about the function of concrete in different environmental conditions, it's important to analyze the methods and new technologies of factors and concrete and adopted with environmental condition and function of Iran. One of the main causes of destroyed concrete is the alkali-carbon reaction of the aggregates. In this paper, the aggregates are chosen from three resources in Iran. Mortar bar method, accelerated mortar bar test, accelerated concrete prism test were performed on experimental samples and some solutions were expressed for the concrete to be remained properly. According to the results, it is concluded that among these three methods, accelerated mortar bar test (with choosing appropriate Expansions criterion, is the best .method to the evaluate Alkali-carbonate reactions

کلمات کلیدی:

Concrete, Durability, alkali reactions

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