

Effect of Finely Dispersed Fly Ash and Slag Additives on Cement Hydration Kinetics

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Hydration process of cement mixtures with finely ground additives of fly ash and granulated blast furnace slag was followed using calorimetry and other methods with aim to evaluate the scope of heat effect replacement as well as the processes occurring in the liquid phase. The retarding action and chemical modification of hydrating systems will be discussed from the point of view of the composition of initial mixture. The hydration products will be characterized by means of different techniques.