

Abstract

The effect of gypsum and two kinds of methylcellulose with plastic viscosity of 40 and 70 Pa·s on alite hydration was studied. The results have shown that gypsum retard alite reaction with water and this effect is significant till 24 hours. After 168 hours the heat of reaction is higher for alite sample with gypsum addition. The retarding effect of methylcellulose is significant in the sample of alite without gypsum. The influence of plastic viscosity i.e. 40 and 70 Pa·s of this admixture is insignificant. In the sample with gypsum addition the retarding effect is much lower