

Abstract:

In the cement industry, a main addition is heard only rarely; but its impact on the implementation of cementitious materials and their mechanical performance is very large.

If the industry this proportion is almost constant while -it must decrease or increase ? and what are the effects of water and temperature?

Cementitious materials will be made with cements with different proportions of gypsum and water at different assays kept in the open air or in an oven at different ages to deduce their mechanical characteristics.

This experimental study investigated the effect of the ternary (gypsum, water, temperature) on the mechanical behavior of cementitious materials.

In this study, was varied gypsum percentage (1%, 2%, 3%, 4%, 5%, 6%, 7%, 8%, 9%, 10%) in the cement with which manufactures a cementitious material at different dosages water retained in the open air and in an oven at various ages to determine by testing the mechanical properties.

Mords key : the cement industry, cement materials, mechanical performance, the effect of the ternary, the mechanical characteristics.