ABSTRACT

In this study, using different proportions of boron deposits obtained from various purposes are manufactured with concrete. In the study produced concrete water / cement ratio for concrete 400 kg/m^3 of 0.40, 0.35 for concrete on the aggregate volume of 450 kg/m^3 of % 2.5 and % 5 by weight of boron is used. The physical and mechanical properties of the finished concrete products and radiation absorption coefficients of the series found. The amount of boron compounds, and aggregate concrete compressive strength values and the absorption coefficients of variation were examined, and which exchange rates were changed. Aggregate as a result of operation instead of the normal use of boron and boron absorption coefficient decreases with increasing rate, has been found to change the physical and mechanical strength.