

کد ۵۰۳۴C

performance high ternary of properties Mechanical zeolite and metakaolin concrete incorporating pozzolans

P. Ashoori ¹, J. Sobhani ², R. Madandoust ³

1- MS.c Student at Dept. of Civil Engineering, Guilan University. Rasht

2- Assistant Professor, Dept. of Concrete Center, Building and Housing Research
Center. Tehran

3- Assistant Professor, Dept. of Civil Engineering, Faculty of Engineering,
Guilan University. Rasht.

Email

1- Poorya.ashoori@gmail.com Tel: (+98)2122461189 Mobil: (+98)9127175534

2- ja_sobhani@yahoo.com, 3- R.Madandoust@yahoo.com

Abstract

Material and interaction between them have impressive and determinant rule in explanation mechanical properties of high performance concrete. In this way, well knowing of these two parameters lead us to have best choice of kind and amount of materials to made a concrete with desirable behavior against loads. In this research various amount effect of zeolite and metakaolin and their mixtures and replacing them with cement, is checked. finally interaction effect between these materials on concrete mechanical property will be recognize based on laboratory results, positive effect of these pozzolans on long term mechanical behavior on concrete which made by these materials is proved.

Key word : High performance concrete (HPC), Ternary cementitious system , mechanical properties, compressive straight, Metakaolan , Zeolite.