ABSTRACT

The main aim of the project is to study tensile behavior of textile reinforced Concrete (TRC) made with E- glass fibre. Textile Reinforced Mortar is advanced cement-based material in which fabrics used as reinforcement can bring significant loads in tension, allowing architects and engineers to use thin and lightweight structures characterized by a high load bearing capacity. The growing interest in effective solutions for the structural upgrading of existing building and infrastructures has gradually oriented research towards the optimization of high performance of light weight concrete. In this project, Experimentation work concerns the tensile strength test for glass fibre textile and attains the peak tensile load. With the result of peak tensile load, designed the Textile reinforced mortar specimen with different grades of concrete and with various layer of glass textile fibre as reinforcing agent. Thus, test results were provided stress-strain variation of the various specimens those differ in grades and glass fibre layers.