In this study, the physical-mechanical analyzes (specific gravity of minerals, compressive strength, bending strength) were carried out on polymer concrete samples produced by orthophthalic based, general purpose unsaturated polyester resin as matrix materials and three phase materials (marble, slate and andesite), each phase material is seven different mesh size. According to experimental results, changing on properties of polymer concretes depend on curing times have been investigated. In this researching, the importance of polymer concrete curing time has been emphasized and the effect on strength of this period has been revealed. It has been concluded that compressive and bending strength is changing depend on types of phase materials.

Keywords: Polymer concrete, curing period, slate, andesite, marble