Soft computing technics to predict the early-age compressive strength of flowable ordinary Portland cement

Wael Mahmood, Ahmed Salih Mohammed ✉, Panagiotis G. Asteris & Hawreen Ahmed ✉

Abstract

In this study, the effect of two water reducer polymers with smooth and rough surfaces on the compression strength of ordinary Portland cement (OPC) was investigated. Three different initial ratios between water and cement (w/c) 0.5, 0.6, and 1 were used in this study. The amount of polymer contents varied from 0 to 0.06% (%wt) for the cement paste with an initial w/c of 0.5. The cement paste's polymer contents ranged between 0 and 0.16% (%wt) with an initial w/c of 0.6 and 1 were investigated. SEM test was conducted to identify the impact of