

## **Potential of Marine Clay as Raw Material in Geopolymer Composite**

### Abstract

In this research, marine clays has been studied its potential as a matrix composite materials that tend to be used as alternative materials to concrete. The study shows that marine clays which mixed with appropriate proportion of alkaline activator could have strength requirements for masonry cement. The alkaline activator that been used for the geopolymerisation reaction is sodium silicate and sodium hydroxide. Its compressive strength in early time reached 9-15 MPa.

Keywords: Composition, Compression Strength, Geopolymer, Marine Clay