ABSTRACT

Judul : Pengaruh Kadar Lumpur dan Organik Pada Pasir Silika Belitung Terhadap *Polycarboxylate Ether Admixture*

Nama : Suhendri

N.I.M : 41106110045

Pembimbing : Agyananta Tua Munthe, S.T., M.T.

Tahun : 2018

Increasing development in the country at this time, affects the concrete industries in Indonesia, giving rise to a high demand for concrete, of course, also needed concrete-forming materials such as good quality sand, with less sludge from or equal to 5% of both river sand and mountain sand, which was stipulated by SK SNI S-04-1998-F, 1989, which could not contain more than 5% mud. For this reason, it is necessary to analyze the sand which has high sludge content. In this study researchers tried to use Polycarboxcylate ether admixture to obtain good concrete compressive strength with silica sand which has high sludge content of 5% -10%, 10-15% and 15% -25% and it can be concluded that sand with 7% sludge can be used as a mixture of concrete with compressive strength at 28 days reaching 74.62 MPa.

Keywords: High sludge content, compressive strength, Admixture