ABSTRAK

Berdasarkan hasil penelitian di labolatorium Universitas Sangga Buana YPKP didapat kesimpulan sebagai berikut. Beton dengan campuran Abu terbang (FlyAsh) sebanyak 5% dari semen dan 0,90% campuran SikaViscocrete (Additive) setelah dilakukan uji kuat tekan memiliki nilai kuat tekan yang tinggi yaitu 21,50 MPa. Beton dengan campuran Abu terbang (FlyAsh) sebanyak 10% dari semen dan 0,90% campuran SikaViscocrete (Additive) setelah dilakukan uji kuat tekan memiliki nilai kuat tekan yang tinggi yaitu 25,75 MPa.

Penelitian Labolatorium yang dilakukan adalah , Perlu diadakan lagi penelitian lebih lanjut terkait beton yang mengandung FlyAsh lebih dari 10%. Karena menurut penulis beton menggunakan SilicaFume sebanyak 10% mendapatkan Range Kuat Tekan besar dibandingkan campuran Fly Ash sebesar 10%. Dalam pengujian ini, campuran fly ash 10% dapat di gunakan untuk beton mutu tinggi dengan mutu K-300.

Kata kunci : pasir, campuran,fly ash 10%, beton mutu tinggi

ABSTRACT

Based on the results of research in the laboratory of Sangga Buana YPKP University, the following conclusions can be obtained. Concrete with a mixture of fly ash (FlyAsh) of 5% of cement and 0.90% of SikaViscocrete (Additive) mixture after the compressive strength test has a high compressive strength value of 21.50 MPa. Concrete with a mixture of fly ash (FlyAsh) as much as 10% of cement and 0.90% mixture of SikaViscocrete (Additive) after the compressive strength test has a high compressive strength value of 25.75 MPa.

Labolatorium research conducted is that further research is needed regarding concrete containing more than 10% FlyAsh. Because according to the authors the concrete uses SilicaFume as much as 10% to get a large Compressive Strength Range compared to the Fly Ash mixture of 10%. In this test, 10% fly ash mixture can be used for high quality concrete with K-300 quality.

Keywords: sand, mix, concrete