

ABSTRAK

Berdasarkan hasil penelitian di laboratorium Universitas Sangga Buana YPKP didapat kesimpulan sebagai berikut. 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 27,16 MPa. Beton dengan campuran Abu terbang (FlyAsh) sebanyak 15% dari semen dan 0,90% campuran SikaViscocrete (Additive) setelah dilakukan uji kuat tekan memiliki nilai kuat tekan yang tinggi yaitu 31,12 MPa.

Dari uraian kesimpulan diatas dengan merujuk pembahasan dan hasil penelitian, Penelitian Laboratorium yang dilakukan adalah, Perlu diadakan lagi penelitian lebih lanjut terkait beton yang mengandung FlyAsh lebih dari 15%. Karena menurut penulis beton menggunakan SilicaFume sebanyak 15% mendapatkan Range Kuat Tekan besar dibandingkan campuran Fly Ash sebesar 15%. Dalam pengujian ini, campuran fly ash 25% dapat di gunakan untuk beton mutu tinggi dengan mutu K-600.

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) 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 27.16 MPa. Concrete with fly ash mixture (FlyAsh) as much as 15% of cement and 0.90% mixture of SikaViscocrete (Additive) after the compressive strength test has a high compressive strength value of 31.12 MPa.

From the description above conclusions by referring to the discussion and research results, the Laboratory Research conducted is, It is necessary to hold further research related to concrete containing more than 15% FlyAsh. Because according to the authors the concrete uses SilicaFume as much as 15% to get a large Compressive Strength Range compared to the Fly Ash mixture of 15%. In this test, a 25% fly ash mixture can be used for high quality concrete with K-600 quality.