ABSTRAK

Berdasarkan hasil penelitian di labolatorium 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 52,63 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 55,46MPa. Kuat lentur teoritis, Perkiraan kuat lentur beton kubus hasil rancangan pada umur 28 hari adalah, F’c konversi dari beton silinder terhadap beton kubus x kuat tekan rencana 46,03 Mpa, Kuat Lentur Teoritis 6,513 Mpa.

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 10% of cement and 0.90% of SikaViscocrete (Additive) mixture after the compressive strength test has a high compressive strength value of 52.63 MPa. Concrete with a mixture of fly ash (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 55.46MPa. Theoretical flexural strength, Estimated flexural strength of cube concrete design at 28 days is, F'c conversion of cylindrical concrete to concrete cube x planned compressive strength of 46.03 MPa, theoretical flexural strength of 6.513 MPa.

Keywords: sand, mix, concrete