ABSTRAK

Dalam penelitian ini dibahas mengenai pengaruh penggunaan serbuk kayu sebagai *accelerator* pada campuran beton normal. Tinjauan analisis penelitian ini adalah kuat tekan dengan benda uji kubus 15 cm x 15 cm x 15 cm. Benda uji Beton Normal, $BATK_1$ dengan campuran serbuk kayu 5%, $BATK_2$ dengan campuran serbuk kayu 15% dan $BATK_3$ dengan campuran serbuk kayu 25%.

Dari hasil pengujian, pada benda uji Beton Normal didapati nilai kuat tekan 16,60 pengujian 7 hari dan di pengujian 14 hari didapati nilai kuat tekan 19,18 Mpa, $BATK_1$ 0,5% didapati nilai kuat tekan sebesar 16,60 MPa pengujian 7 hari dan di pengujian 14 hari didapati nilai kuat tekan 16,60 Mpa, $BATK_2$ 1,5% didapati nilai kuat tekan sebesar 15,49 MPa pengujian 7 hari dan di pengujian 14 hari didapati nilai kuat tekan 15,86 Mpa, $BATK_3$ 2,5% didapati nilai kuat tekan sebesar 15,49 MPa pengujian 7 hari dan di pengujian 14 hari didapati nilai kuat tekan 15,86 Mpa.

Dari kesimpulan di atas nilai kuat tekan cenderung menurun dibandingkan dengan beton normal, semakin banyak persentase campuran serbuk kayu semakin menurun nilai kuat tekan yang didapat.

Kata Kunci : Beton Normal penggunaan serbuk kayu sebagai *accelerator*

ABSTRACT

This research discusses the effect of using wood sawdust as an accelerator in a normal concrete mixture. The analytical review of this research is the compressive strength with cube 15 cm x 15 cm x 15 cm specimens. Normal Concrete test specimens, $BATK_1$ with a mixture of 5% sawdust, $BATK_2$ with a mixture of 15% sawdust and $BATK_3$ with a mixture of 25% sawdust.

From the test results, the Normal Concrete test object was found to be compressive strength 16,60 for 7 days and in the 14 day test it was found that the compressive strength was 19,18 Mpa, $BATK_1$ 0.5% was found to be compressive strength of 16,60 MPa for 7 days and in the 14-day test it was found that compressive strength was 16.60 MPa, $BATK_2$ 1.5% was found to be compressive strength at 15.49 MPa for 7 days and in the 14 days it was found that compressive strength was 15.86 MPa, $BATK_3$ 2.5% found the compressive strength value of 15.49 MPa for 7 days testing and in the 14 days testing found the compressive strength value of 15.86 MPa.

From the conclusions above the compressive strength values tend to decrease compared to normal concrete, the more the percentage of wood sawdust mixture the more the value of compressive strength decreases.

Keywords: Normal Concrete use wood sawdust as an accelerator