

ABSTRAK

Penelitian ini berupa beton *fast track Ground Granulated Blast Furnace slag* komposisi pasta beton sebagai media pengisi beton dengan kerikil dan pasir terhadap volume silinder dengan perawatan. Tinjauan analisis penelitian ini adalah kuat Tarik belah dengan benda uji silinder 15 cm x 30 cm. Benda uji beton dengan campuran slag 0%, 10%, 20%, 40% dan 60%.

BGGBFSB 0 setelah dilakukan uji kuat Tarik belah memiliki nilai kuat tarik belah yaitu pada usia 7 hari kenaikan 4.1% usia 14 hari, dan pada usia 14 hari memiliki kenaikan 8.7% pada usia 28 hari. BGGBFSB 10 setelah dilakukan uji kuat Tarik belah memiliki nilai kuat tarik belah yaitu pada usia 7 hari kenaikan 4.3% usia 14 hari, dan pada usia 14 hari memiliki kenaikan 9.2% pada usia 28 hari. BGGBFSB 20 setelah dilakukan uji kuat Tarik belah memiliki nilai kuat tarik belah yaitu pada usia 7 hari kenaikan 4.6% usia 14 hari, dan pada usia 14 hari memiliki kenaikan 9.9% pada usia 28 hari. BGGBFSB 40 setelah dilakukan uji kuat Tarik belah memiliki nilai kuat tarik belah yaitu pada usia 7 hari kenaikan 4.8% usia 14 hari, dan pada usia 14 hari memiliki kenaikan 10.3% pada usia 28 hari. BGGBFSB 60 setelah dilakukan uji kuat Tarik belah memiliki nilai kuat tarik belah yaitu pada usia 7 hari kenaikan 4.5% usia 14 hari, dan pada usia 14 hari memiliki kenaikan 9.6% pada usia 28 hari..

Kata Kunci : Beton slag, Kuat tarik belah, *mixing*, *Fast Track*.



ABSTRACT

This research is ground granulated blast furnace slag fastrack concrete composition of concrete paste as a filler medium for concrete with gravel and sand to the volume of the cylinder with treatment. The review of the analysis of this study is the split tensile strength with a 15 cm x 30 cm cylindrical specimen. Concrete test specimens with a slag mixture of 0%, 10%, 20%, 40% and 60%.

BGGFSB 0 after the split tensile strength test was carried out, the value of split tensile strength was that at 7 days of age it increased by 4.1% at 14 days of age, and at 14 days of age it had an increase of 8.7% at 28 days of age. BGGFSB 10 after the split tensile strength test had a split tensile strength value, namely at the age of 7 days it increased by 4.3% at the age of 14 days, and at the age of 14 days it had an increase of 9.2% at the age of 28 days. BGGFSB 20 after the split tensile strength test had a split tensile strength value, that is, at 7 days of age it increased by 4.6% at 14 days of age, and at 14 days of age it had an increase of 9.9% at 28 days of age. BGGFSB 40 after the split tensile strength test had a split tensile strength value, namely at 7 days of age it increased by 4.8% at 14 days of age, and at 14 days of age it had an increase of 10.3% at 28 days of age. BGGFSB 60 after the split tensile strength test has a split tensile strength value, that is, at 7 days of age it increases 4.5% at 14 days, and at 14 days it has an increase of 9.6% at 28 days.

Keywords : Concrete slag, Split tensile strength, mixing, Fast Track.