

## ABSTRAK

Penelitian kuat tekan ini berupa beton polimer dengan komposisi terdiri dari resin epoxy, *slag*, dan agregat halus sebagai mortar, dan variasi agregat kasar dengan gradasi monoton 15mm, 25mm dan 30mm terhadap volume silinder. Tinjauan analisis penelitian ini adalah kuat tekan dengan benda uji silinder 15cm x 30cm. Benda uji **BSL4<sub>1</sub>** dengan campuran slag 4% gradasi agregat kasar 15mm, **BSL4<sub>2</sub>** 25mm, dan **BSL4<sub>3</sub>** 30mm.

Hasil pengujian kuat tekan beton **BSL4<sub>1</sub>** memiliki kuat tekan yang tinggi 62,8 Mpa, **BSL4<sub>2</sub>** 60,0 Mpa dan **BSL4<sub>3</sub>** 58,6 Mpa. Penurunan Persentase nilai kuat tekan yang didapat **BSL4<sub>1</sub>** sebesar 2,8% terhadap **BSL4<sub>2</sub>** dan **BSL4<sub>2</sub>** sebesar 1,4% terhadap **BSL4<sub>3</sub>**.

Kata Kunci : Polimer, Resin Epoxy, Kuat Tekan, Slag, Agregat Kasar, Agregat Halus

## **ABSTRACT**

*This compressive strength research is in the form of polymer concrete with a composition consisting of epoxy resin, slag, and fine aggregate as a mortar, and variations of coarse aggregate with monotonous gradations of 15mm, 25mm and 30mm to the cylinder volume. Overview of the analysis of this research is the compressive strength with a cylindrical specimen 15cm x 30cm. The test object was BSL41 with a mixture of 4% slag gradation of 15mm coarse aggregate, 25mm BSL42, and 30mm BSL43.*

*The results of the compressive strength test of BSL41 concrete have a high compressive strength of 62.8 Mpa, BSL42 60.0 Mpa and BSL43 58.6 Mpa. The decrease in the percentage of compressive strength values obtained by BSL41 is 2.8% against BSL42 and BSL42 is 1.4% against BSL43.*

*Keywords: Polymer, Epoxy Resin, Compressive Strength, Slag, Coarse Aggregate and Fine Aggregate.*

