

Studi literatur komposisi dan karakteristik mortar geopolimer berbahan dasar fly ash = Literature study of the composition and characteristics of fly ash based geopolymer mortar

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Abstrak

Perkembangan ilmu pengetahuan telah menemukan geopolimer, sebagai satu alternatif dalam memproduksi beton ramah lingkungan. Pengaruh dari berbagai parameter terhadap kuat tekan dan karakteristik dari mortar geopolimer antara lain rasio larutan K₂SiO₃ / Na₂SiO₃ dan larutan KOH / NaOH adalah 0.8 - 1.5 dan konsentrasi KOH / NaOH yang tinggi dapat menghasilkan kuat tekan optimum mortar geopolimer berbahan dasar Fly Ash tipe F, sedangkan Rasio larutan K₂SiO₃ / Na₂SiO₃ dan larutan KOH / NaOH adalah 2 - 2.5 dan konsentrasi NaOH 8M dapat menghasilkan kuat tekan optimum mortar geopolimer berbahan dasar Fly Ash tipe C. Kuat tekan mortar geopolimer berbahan dasar Fly Ash tipe C lebih tinggi dibandingkan kuat tekan mortar geopolimer berbahan dasar Fly Ash tipe F.

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Developments in science have been discovered geopolimer, as an alternative in producing environmentally concrete. Influence of various parameters on the compressive strength and characteristics of fly ash based geopolymers mortar include ratio K₂SiO₃ / Na₂SiO₃ and KOH / NaOH is 0.8 - 1.5 and the highest concentration of KOH / NaOH may produce the optimum compressive strength of fly ash based geopolymers mortar from class F, whereas ratio K₂SiO₃ / Na₂SiO₃ and KOH / NaOH is 2 - 2.5 and NaOH 8M may produce the optimum compressive strength of fly ash based geopolymers mortar from class C. The Compressive strength of fly ash based geopolymers mortar from class C is higher than the compressive strength of fly ash based geopolymers mortar from class F.