

ABSTRAK

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Beton K-300 adalahbeton yang mempunyaikuattekankarakteristiksebesar 300 kg/cm². Banyak penelitian yang dilakukandenganmenggunakanbahan – bahanlimbahperkebunandan tambang yang terbuangbegitusaja. Limbahtersebutberupacangkang kemiri, abusekamPadi, abuampas Tebu, abusabutkelapa, dan abuterbangBatu Bara.Pada penelitianini menggunakanabucangkang Kemiri sebagaibahantambah semen, denganvariasipenambahan5%, 10%, dan 15% dariberat semen terhadapmutubeton K-300. Pengujiankuattekandilaksanakan pada umurbeton 7 hari dan 28 hari, maksuddaripenelitianiniuntukmengetahuikuattekanbeton, kuattekantertinggi.Kuattekankarakteristik yang diperoleh pada umur 28 hari pada variasibeton normal 304,127 kg/cm², variasibeton normal denganpenambahan5% abucangkang Kemiri 421,551 kg/cm², variasibeton normal denganpenambahan10% abucangkang Kemiri 426,863kg/cm², dan variasibeton normal denganpenambahan15% abucangkang Kemiri 428,210 kg/cm². Jadipresentase optimum daripenambahanabucangkang Kemiri sebesar15% dariberat semen dengankuattekanmaksimumsebesar428,210 kg/cm².

Kata kunci :Beton K-300, KuatTekanBeton, Abu Cangkang Kemiri.

ABSTRACT

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K-300 concrete is concrete that has a characteristic compressive strength of 300 kg / cm². Much research has been carried out using plantation and mining waste materials that are simply wasted. These wastes are in the form of abucangkang kemiri, rice husk ash, sugar cane ash, coconut coir ash, and coal fly ash .In this study. using abucangkangkemisi as a cement additive, with variations in the addition of 5%, 10%, and 15% of the weight of cement to the quality of K-300 concrete. Compressive strength testing was carried out at the age of concrete 7 days and 28 days, the purpose of this study was to determine the compressive strength of concrete, highest pressure strength, and the optimum percentage. strong concrete pressure characteristics obtained at 28 days at a normal concrete variation 304.127 kg / cm, normal concrete variations with the addition of 5% abucangkang kemiri 421,551 kg / cm, normal concrete variations with the addition of 10% abucangkang kemiri 426,863 kg / cm², and variations normal concrete with the addition of 15% abucangkang kemiri 428,210 kg / cm. So the optimum percentage of the addition of abucangkang kemiri is 15% of the weight of cement with a maximum compressive strength of 428,210 kg / cm.

Keywords: K-300 Concrete, strong concrete pressure, Abu CangkangKemiri