

Kajian sifat fisik dan mekanik batu bata komposit tanpa pembakaran dengan campuran 4 serabut kelapa tidak seragam yang telah diolah =
Study of physical and mechanical properties of unfired bricks reinforced by 4 treated mixed coirs / Rahmat Nur Dian Syah

Rahmat Nur Dian Syah, author

Deskripsi Lengkap: <https://lib.ui.ac.id/detail?id=20413935&lokasi=lokal>

Abstrak

ABSTRAK
Skripsi ini mengkaji pengaruh penambahan 4% Serabut kelapa yang telah diolah sebagai potensi lokal dengan panjang tidak seragam yang telah diolah terhadap sifat fisik dan mekanik bata tanpa pembakaran berbahan tanah dan kapur dengan tiga cara metode curing. Masing-masing 1/3 bagian serabut kelapa berukuran 1, 2,5 dan 4 cm dicuci, ditiriskan sehari dan dioven sehari pada suhu 50o C sebelum dicampurkan ke campuran tanah dan kapur. Berdasarkan hasil pengujian mekanik bata didapatkan bahwa penambahan 4% serabut kelapa campuran pada bata kapur dapat meningkatkan sifat mekanik bata. Namun untuk sifat fisik didapati hasil yang bervariasi. **ABSTRACT**
This study investigates the effect of adding 4% treated non-uniform coirs as a local potential on the physical and mechanical properties of unfired bricks made of soil and lime under three different curing methods. Length of treated coirs are 1, 2.5 and 4 cm respectively which each has 1/3 proportion of the whole coirs on bricks. They were washed, drained for 24 hours and heated at a temperature of 50o C for another 24 hours before placing them into the soil and lime mixture. Based on the mechanical test result on the bricks, it was found that the addition of 4% treated non-uniform of coirs increase the mechanical properties of unfired bricks in all curing conditions. On the other hand, there are variation in physical test results.