ABSTRACT

So far the use of portland cement, especially cement (PCC) is an alternative to the main binder in the manufacture of concrete. Because concrete is a material that is in demand in the construction, especially residential development, structural reinforced concrete buildings and other civil-banguan.

This study aims to analyze the concrete compressive strength of normal concrete compressive strength compared with the powder is mixed with lime and powdered brick as a material other than cement binder which can be mixed with a mixture of materials in the manufacture of concrete. In addition to saving the use of cement in making concrete and qualitative kuantati and utilize materials that are easy to get.

In principle, the exercise of this study was made of concrete with the quality of K-175 is divided into two types it is noromal concrete and concrete with a mixture of 5% lime and brick powder, 10% limestone and brick powder, 20% limestone and brick powder, and 30% limestone and brick powder, diamana each mixed with lime cement replaced by 70% of percent of the manufacture of a mixture of concrete and 30% of brick powder.

From the tests, expected results of compressive strength testing of concrete mixed with a mixture of chalk and brick dust can be a maximum or optimum compressive strength of normal concrete so that it can in the manufacture of concrete benefits in the future.