WASTE PLASTIC MATERIAL AS AN ADDITIONAL MATERIAL FOR HOLLOW FOUNDATION TEST CONCRETE

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Abstract

In general, the foundations used for the simple development of Indonesian society are stone foundation times. The availability of stone times will be reduced if there is no innovation in the foundation. The requirements for this foundation will be experienced if the availability of workers is limited. This study aims to overcome the problem of skilled workers who are able to make a foundation. One way is to change the foundation of the time by making a precast hole foundation. The material used in this experiment is a comparison of ordinary concrete with plastic mixed concrete. The composition of the concrete mixture is 1: 2: 3 and concrete with material added to 1.97 kg of plastic waste (5% by weight of cement) and concrete additives (0.25% of the total volume of concrete). The results obtained from the comparison of the concrete composition are concrete concrete made from plastic and additive at the age of 14 and 28 days at 1.81 Kg / cm2 and 2.15 Kg / cm2, while the precast foundation test material for plastic waste added 5% + concrete additive 0.25% at the age of 14 and 28 days at 2.83 Kg / cm2 and 3.40 Kg / cm2. These results indicate that this foundation is capable of being used in small-scale house construction.

Keywords
plastic waste, hollow foundation, test concrete

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