

CLAY BRICK WASTE AS INTERNAL CURING AGENT IN NORMAL WEIGHT CONCRETE

LAITH SH. RASHEED & LAITH M. RIDHA MAHMMOUD

Department of Civil Engineering, University of Kerbala, Kerbala, Iraq

ABSTRACT

Internal curing is a technique that can be used to provide additional moisture inside the concrete for a more effective cement hydration. Prediction of the influence of internal curing on the concrete and on its final mechanical properties is an important issue in concrete research. Tests by the widely accepted methods of studying properties of concrete, such as compressive strength, splitting tensile strength, density and ultrasonic pulse velocity test made to internally cured concrete with waste of clay brick. The pore structure of waste of clay brick particles seem to have a marked influence on the availability of internal curing water and thus improve hydration of cement and improve properties of concrete.

KEYWORDS: Clay Brick, Curing, Recycling, Sustainability, Waste