ENHANCING STRENGTH AND DURABILITY OF CONCRETE WITH PULP AND PAPER MILL RESIDUALS
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Reference: CBU-2002-25
ABSTRACT

Fibrous residuals generated from pulp and paper mills are included in concrete. In general, at comparable compressive strength, concrete containing the residuals was equivalent to plain concrete in average residual-strength, length change (drying shrinkage), chloride-ion penetration resistance, and abrasion resistance. On the other hand, the residuals concrete showed generally much higher freezing and thawing resistance and salt-scaling resistance than the plain concrete.