Properties of compacted copper fibre reinforced cement composite

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This paper presents the properties of a new fibre cement material formed by short ductile copper fibres randomly distributed in portland cement paste and compacted by compression to 35 MPa. The optimum percentage and the length of the fibres are determined. Load-deflection behaviour, strength and elastic modulus are reported. Comparisons with samples of pure cement paste are made. In determining the strength at fracture the three point bending test was used with samples in moist and dry states. The results show a pseudoductile material with a flexural strength of about 19 to 24 MPa. © 1985.