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Mechanism of cement paste reinforced by ultra-high molecular weight polyethylene powder and thermotropic liquid crystalline copolyester fiber with enhanced mechanical properties

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- Mechanism of cement paste reinforced by ultra-high molecular 1 weight polyethylene powder and thermotropic liquid crystalline 2 copolyester fiber with enhanced mechanical properties 3 4 Guoxing Sun^a, Rui Liang^a, Jinrui Zhang^b*, Zongjin Li^{a,c} and Lu-Tao Weng^{d,e} 5 6 ^aDepartment of Civil and Environmental Engineering, the Hong Kong University of 7 8 Science and Technology, Clear Water Bay, Hong Kong. ^bState Key Laboratory of Hydraulic Engineering Simulation and Safety, Tianjin 9 University, Tianjin 300072, PR China. 10 ^cHKUST Shenzhen Research Institute, Shenzhen 518057, PR China. 11 ^dMaterials Characterization and Preparation Facility, the Hong Kong University of 12 Science and Technology, Clear Water Bay, Hong Kong. 13 14 ^eDepartment of Chemical and Biomolecular Engineering, the Hong Kong University of Science and Technology, Clear Water Bay, Hong Kong. 15 16 17 18 *Corresponding author. Tel.: +852-6214-6641; Fax: +852-2358-1534; 19 E-mail address: jzhangae@conncet.ust.hk. 20 21
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