

Supplementary data

Reinforcement of cement nanocomposites through optimization of mixing ratio between carbon nanotube and polymer dispersing agent

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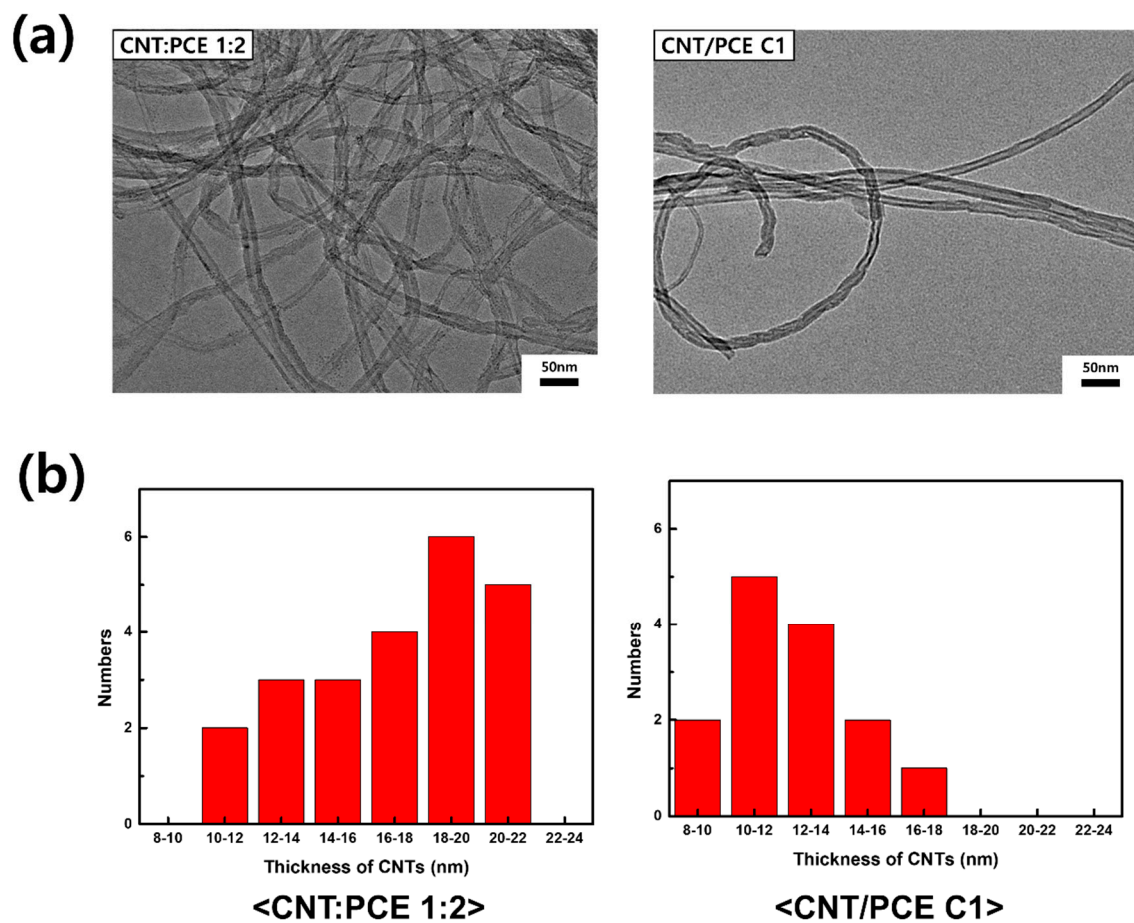
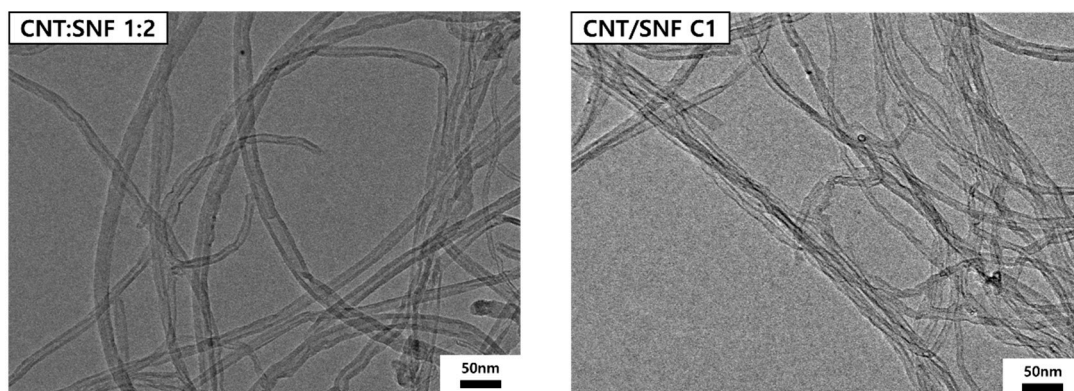


Figure S1. (a) FE-TEM images of CNT/PCE dispersion and (b) histogram before and after the centrifugation.

(a)



(b)

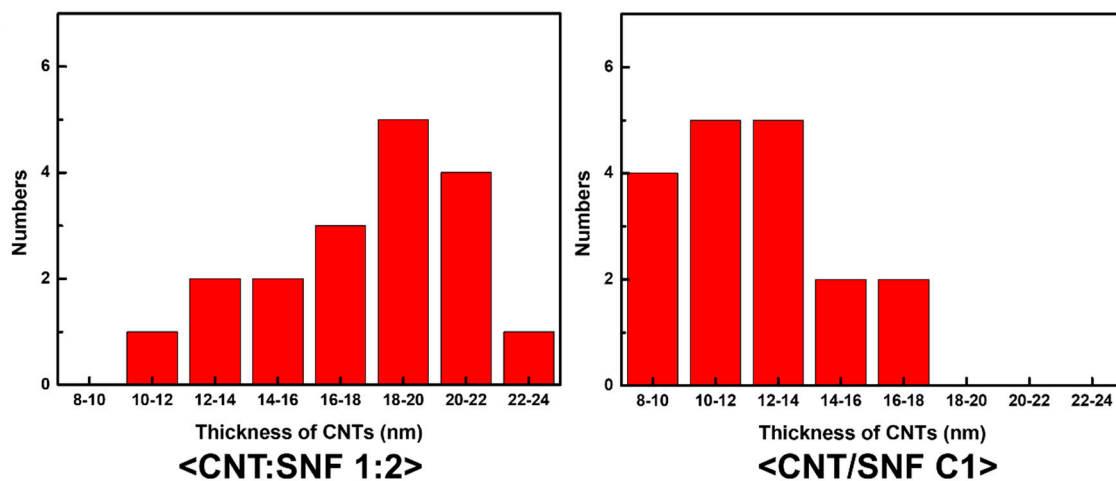


Figure S2. (a) FE-TEM images of CNT/SNF dispersion and (b) histogram before and after the centrifugation.

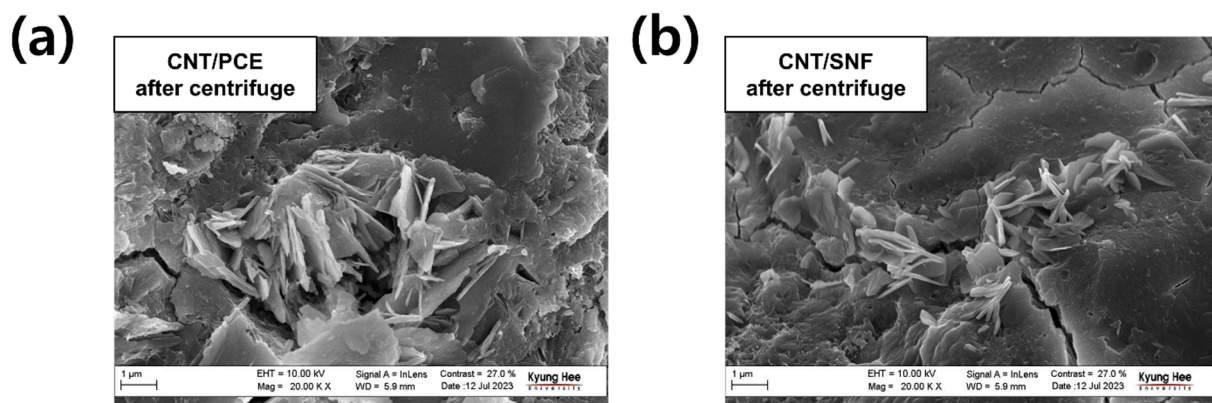


Figure S3. High-magnification FE-SEM images of cement nanocomposites of (a) CNT/PCE and (b) CNT/SNF after centrifugation.

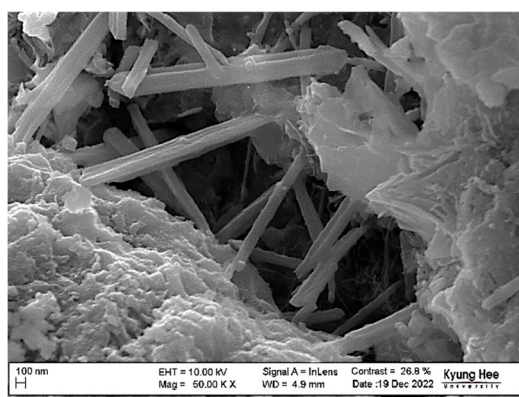


Figure S4. High-magnification FE-SEM image of the interior of the crack in the cement nanocomposites using CNT/PCE C1.