

Supplementary Materials: Microcapsule-Type Self-Healing Protective Coating for Cementitious Composites with Secondary Crack Preventing Ability

Dong-Min Kim, Hwan-Chul Yu, Hye-In Yang, Yu-Jin Cho, Kwang-Myong Lee and Chan-Moon Chung

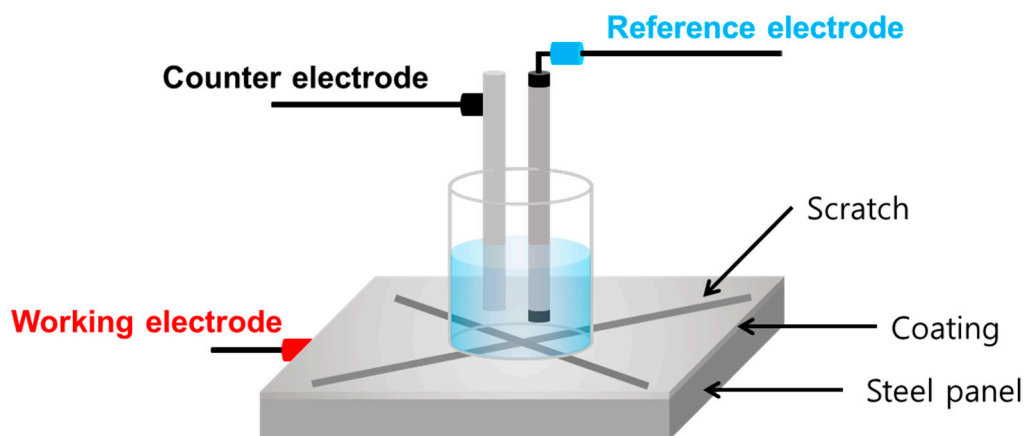


Figure S1. Schematic diagram of electrochemical test.

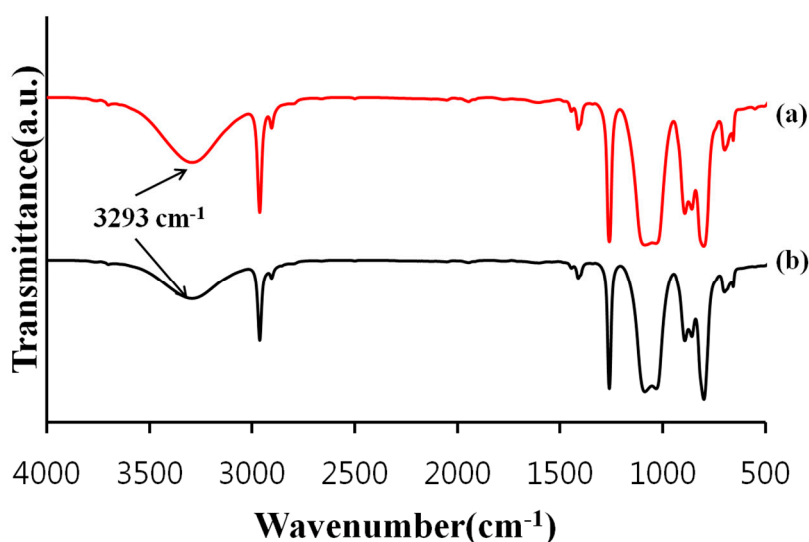


Figure S2. Infrared spectra of (a) an authentic silanol-terminated polydimethylsiloxane (STP) and (b) the core that flowed out of ruptured urea-formaldehyde (UF) microcapsules.

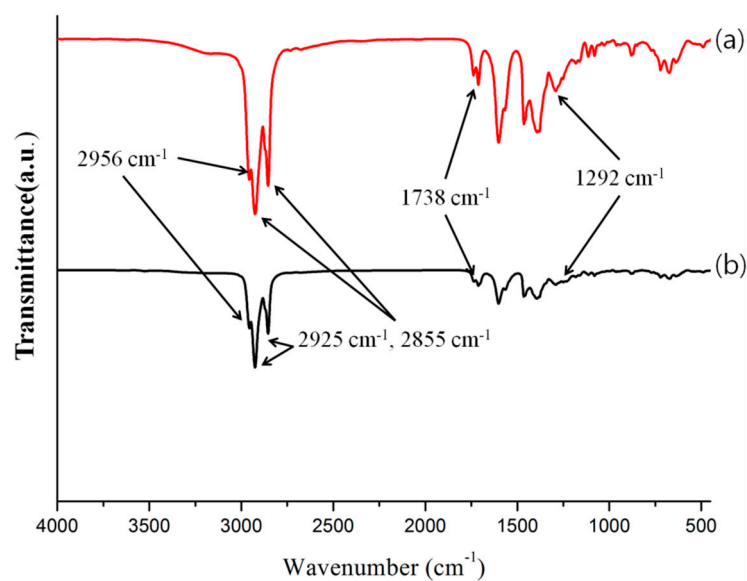


Figure S3. Infrared spectra of (a) an authentic dibutyltin dilaurate (DD) and (b) the core that flowed out of ruptured polyurethane (PU) microcapsules.

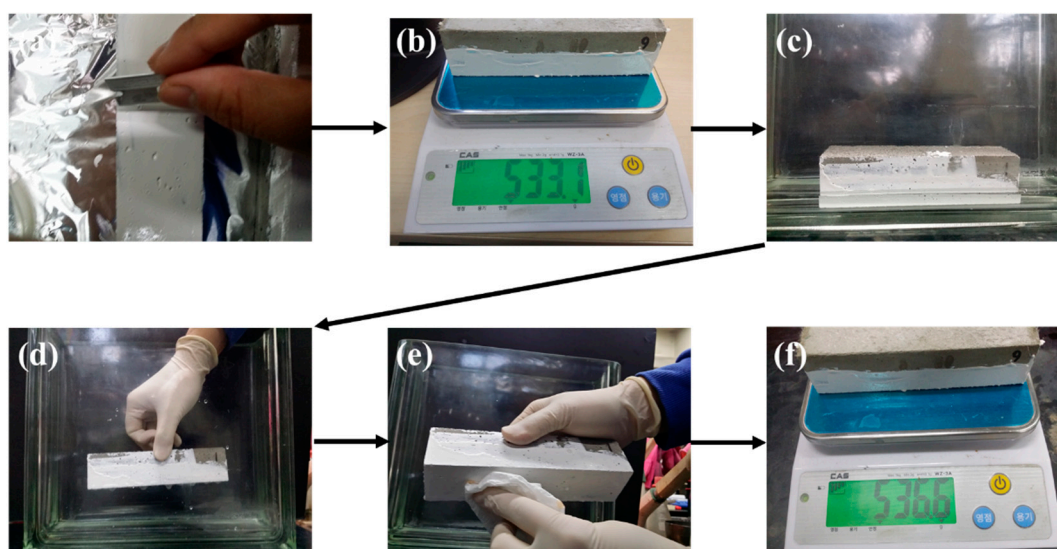


Figure S4. Procedure for water permeability test: (a) scratching a coating on a mortar specimen; (b) weighing; (c) immersion of coated side of the specimen in water; (d) taking the specimen out of a water bath; (e) wiping the immersed surfaces and drying; and (f) weighing.