

The preparation of surfactant for reinforced concrete

김빅토르^{1,2}, 최상원^{1,*}, 김은영¹

¹전남대학교; ²우즈베키스탄 일반 및 무기화학연구소
(sunchem@chonnam.ac.kr*)

A possibility of using wastes from different chemical processes for producing useful surfactants for reinforced concrete has been studied. The range of a raw base involved wastes from terephthalic acid process, pulp and paper process— industrial lignosulfonates, petrochemical processes – sulfonated liquid products of oil pyrolysis. The synthesis was conducted through the well known reactions such as oxidation by Fenton's reagent, sulfonation and graft-polymerization. The obtained water-soluble surfactants demonstrated at low dosages (0.1–0.4%) the better slump effect on cement paste, and higher concrete strength than industrial lignosulfonates(standard).