

Supplementary Materials

Synthesis of Lignosulfonate-Based Dispersants for Application in Concrete Formulations

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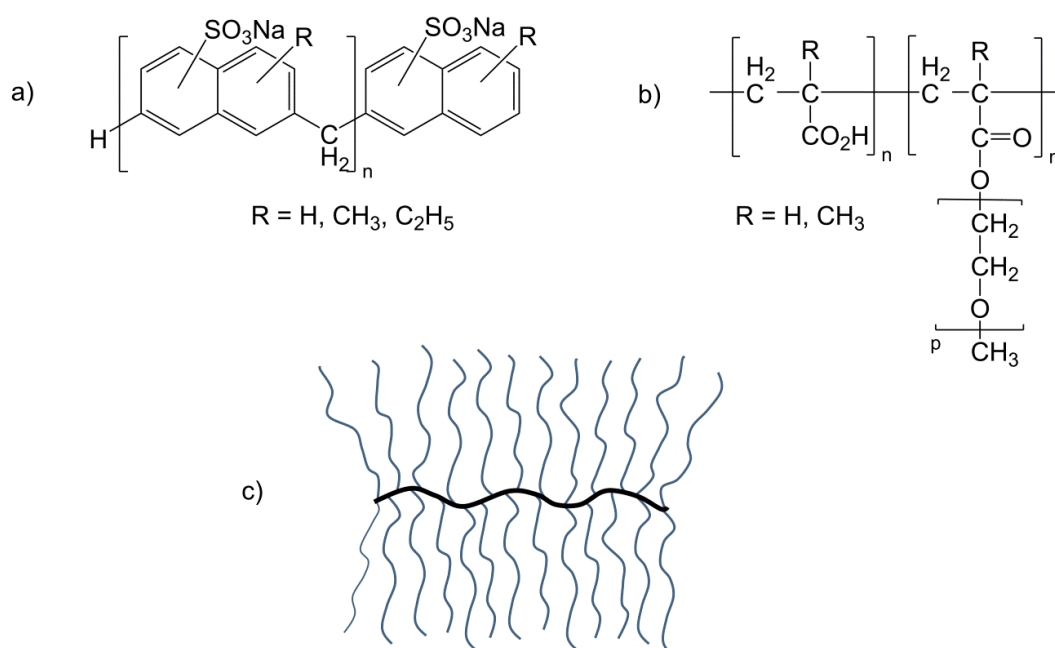


Figure S1. Chemical structure of superplasticizers: NSF (a) and example of PCE (b); molecular architecture of a comb-like PCE superplasticizer (c).

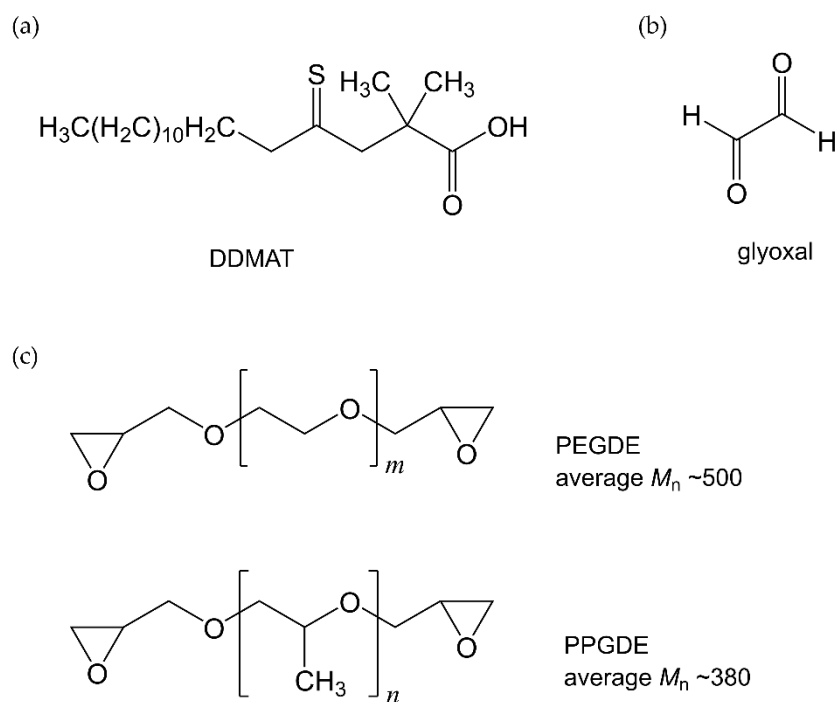


Figure S2. Structure of chemical species used in this study for LS modification: RAFT agent, DDMAT (a), glyoxal (b) and epoxidized oligomers derivatives, PEGDE and PPGDE (c).

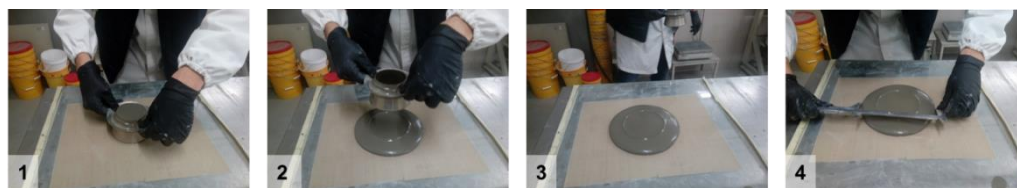


Figure S3. Flow table test: spreading of cement paste.