**Supplementary Information** 



Figure S1: Constant stress-imposed shear rate vs time for O-4 and O-5, the curves clearly show all the shear rates are accessible by the system.



Figure S2: Rheological behaviour of Aust-Na-Mt (5.2 wt.%) in the sol phase demonstrating features of physical aging phenomenon (a) Strain amplitude sweep (b) Storage modulus (G') as function of waiting time (t<sub>w</sub>) (c) No hysteric are is observed in shear up and down tests (d) there is no difference in the flow behaviour when the dispersion is imposed to constant shear stress (CSS) or constant shear rate (CSR) and (e) No viscosity bifurcation behaviour is observed