

Supporting information

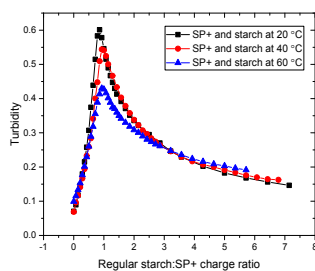


Fig. S1 Turbidity curves for SP+ 0.1 wt% titrated with the regular starch when the sample is held at different temperatures.

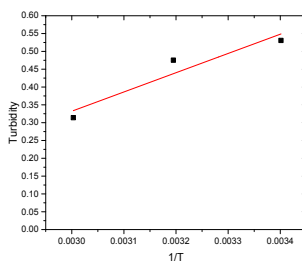


Fig. S2 Plot of turbidity vs $1/T$ for SP+ and added regular starch corresponding to maximum in turbidity.

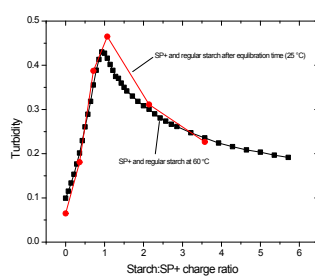


Fig. S3 Comparison of the titration curve at 60 °C and the equilibrated values for the titration curve at room temperature. The faster reorganization at higher temperature results in a similar titration curve as for the equilibrated curve at room temperature.

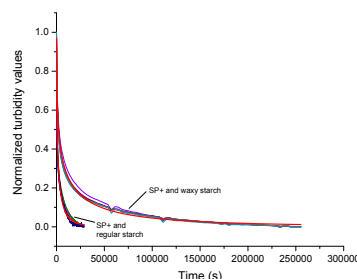


Fig. S4 Normalized turbidity curves for all starch to SP+ charge ratios for both regular and waxy starch.

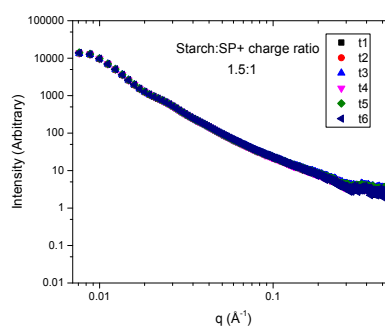
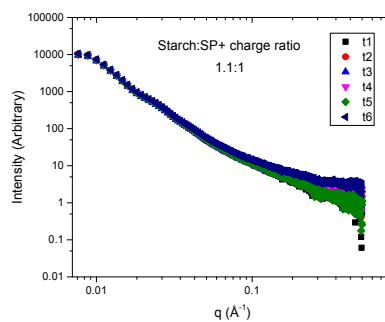
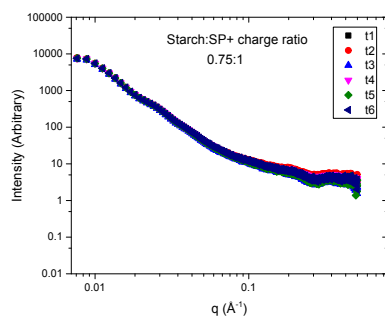
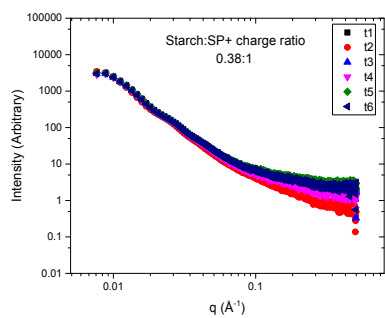


Fig. S5 SAXS data, log-log diagrams of $I(q)$ vs q for different starch (regular) to SP+ charge ratios at different time points, t1-t6, corresponding to measurements every ten minutes for one hour.

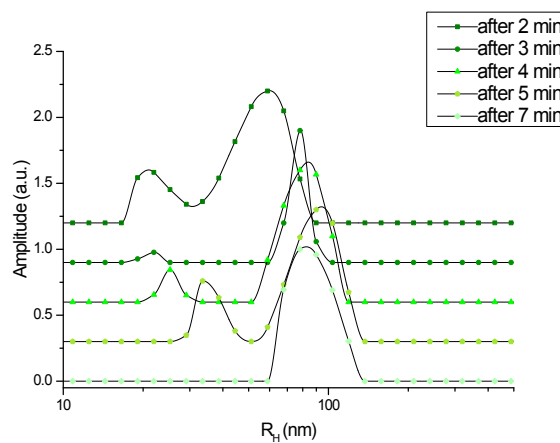


Fig. S6 Amplitude of the light scattering signal as a function of R_H for 0.001 wt% SP+ particles in the presence of waxy starch at a 1:1 charge ratio for the first 7 minutes after mixing.