

Fig. S1 GPC traces of CCS polymers before (black) and after (red) purification.

Table S1 Phase occupation for emulsions prepared using increasing volumetric fractions of toluene solutions of CCS polymers (0.5% w/v).^a

	10% ^b			20% ^b			30% ^b			40% ^b			50% ^b			60% ^b		
	Oil	emuls.	water	oil	emuls.	water	oil	emuls.	water	oil	emuls.	water	oil	emuls.	water	oil	emuls.	water
CCS(PDMA ₁₅)	0	19%	81%	0	32%	68%	0	45%	55%	0	57%	43%	0	72%	28%	34%	29%	37%
CCS(PDMA ₁₂ -PMEA ₅)	0	21%	79%	0	32%	68%	0	47%	53%	0	56%	44%	0	62%	38%	50%	50%	0
CCS(PDMA ₁₀ -PMEA ₈)	0	20%	80%	0	34%	66%	0	46%	54%	0	58%	42%	0	70%	30%	46%	54%	0
CCS(PDMA ₇ -PMEA ₁₀)	0	19%	81%	0	30%	70%	0	45%	55%	0	54%	46%	0	68%	32%	0	81%	29%
CCS(PMEA ₂₄)	14%	0	86%	23%	0	77%	33%	0	67%	43%	0	57%	31%	69%	0	47%	53%	0

^aThe volume percentage of oil, emulsion and water phase in the samples was measured 1 day after preparation ^bVolumetric fraction of toluene solutions of CCS polymers when preparing the emulsion samples.

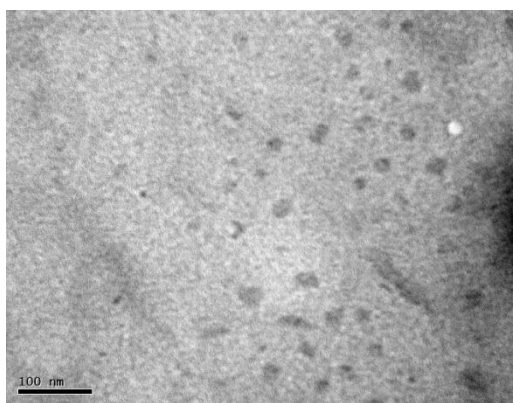


Fig. S2 TEM image of particles of CCS(PDMA₁₂-PMEA₅) self-assembled in water at a concentration of 1 wt%.

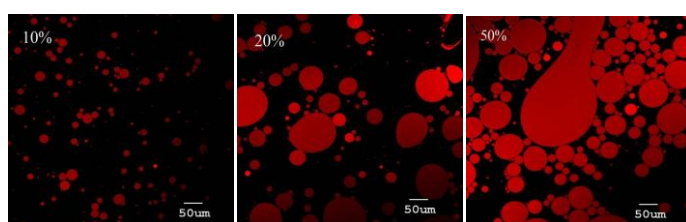


Fig. S3 CLSM images of emulsions prepared using 10%, 20% and 50% volumetric fractions of toluene solution of CCS(PDMA₁₅) (0.5%, w/v). The oil phase is stained with Nile red.

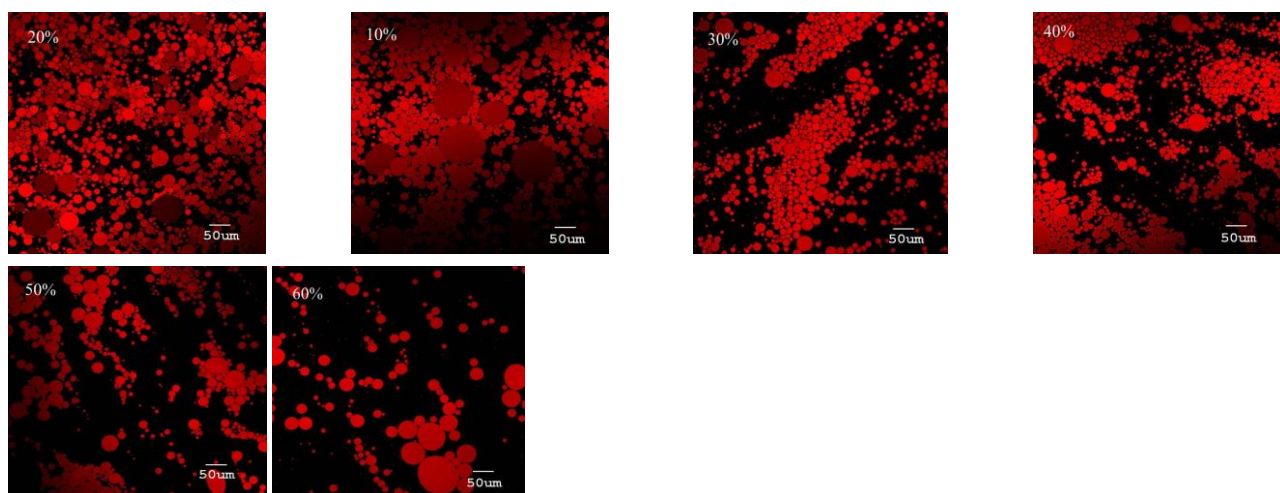


Fig. S4 CLSM images of emulsions prepared using 10-60% volumetric fractions of toluene solution of CCS(PDMA₁₂-PMEA₅) (0.5%, w/v). The oil phase is stained with Nile red.

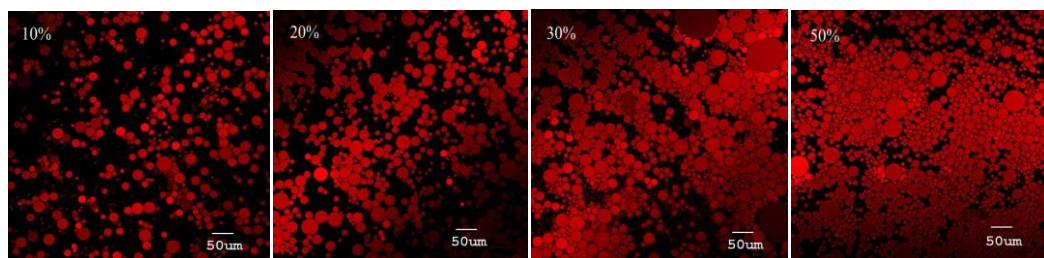


Fig. S5 CLSM images of emulsions prepared using 10%, 20%, 30%, 50% volumetric fractions of toluene solution of CCS(PDMA₁₀-PMEA₈) (0.5%, w/v). The oil phase is stained with Nile red.

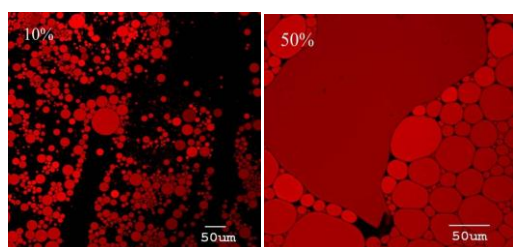


Fig. S6 CLSM images of emulsions prepared using 10% and 50% volumetric fractions of toluene solution of CCS(PDMA₇-PMEA₁₀) (0.5%, w/v). The oil phase is stained with Nile red.

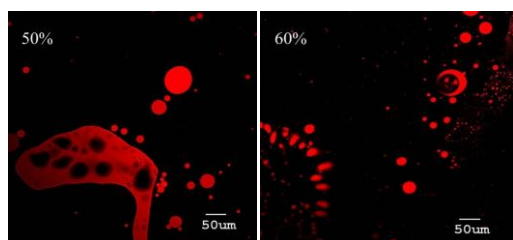


Fig. S7 CLSM images of emulsions prepared using 50% and 60% volumetric fractions of toluene solution of CCS(PMEA₂₄) (0.5%, w/v). The oil phase is stained with Nile red.

