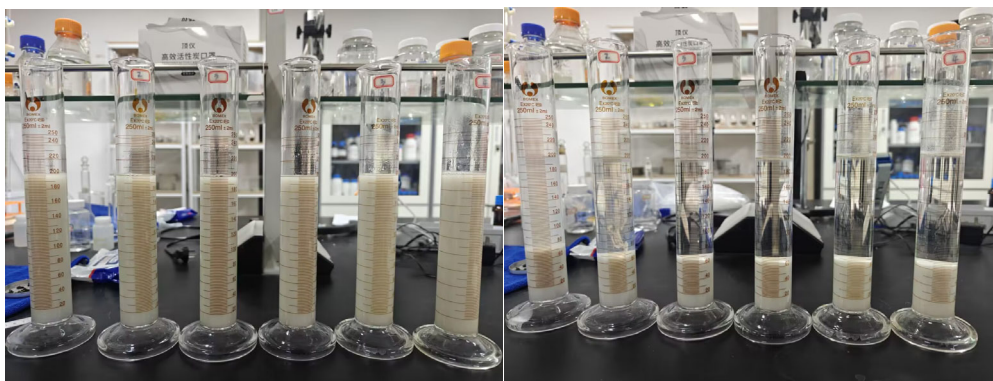


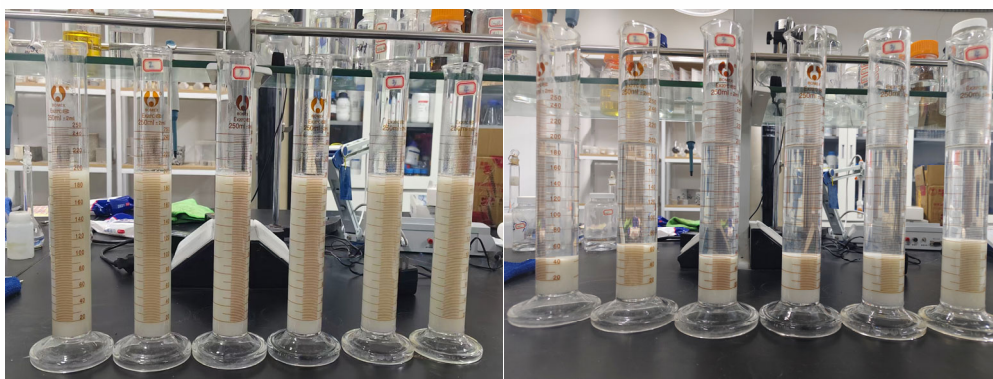
Carbide slag, employed as an alkali source, was supplied by Hubei Yihua Group Co., Ltd. (China); its oxide composition is summarized in Table S1.

Table S1. Major oxide composition of carbide slag (mass fraction, %).

Composition	CaO	SiO ₂	Al ₂ O ₃	Na ₂ O	SO ₃	Fe ₂ O ₃	Others
Mass fraction (%)	93.13	3.01	1.11	0.78	0.43	0.20	1.34



PFC



PDMDAAC

Figure S1 Settling characteristics of sludge under different conditioning agents and durations.