



# Laboratory and field experimental study on efficiency of vacuum preloading–flocculation–solidification combined method for slurry-like mud treatment

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Received: 3 February 2023 / Accepted: 11 December 2023 / Published online: 17 February 2024  
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## Abstract

A new integrated method, i.e., vacuum preloading–flocculation–solidification combined method (VP-FSCM), has been developed for treatment and recycling of slurry-like mud (MS). However, due to the insufficient solidification caused by the decay of vacuum pressure among other factors, the superiority of VP-FSCM under various mixing conditions and the distribution of engineering properties of VP-FSCM-treated MS are not well understood especially at the field pilot scale. In this study, a series of laboratory experiments are performed first to identify the influence of equivalent initial water content ( $w_{eq}$ ) and binder content ( $w_c$ ) on the superiority of VP-FSCM over the conventional pure cement solidification method (PCSM), and some field pilot experiments are then conducted to further demonstrate the solidification efficiency of VP-FSCM and characterize the spatial distribution of strength of VP-FSCM-treated MS. The results indicate that VP-FSCM outperforms PCSM in treatment and utilization of MS, with the strength of VP-FSCM-treated MS being approximately 2.24 times larger than that of PCSM treated MS under the equivalent circumstance at the field pilot scale. In addition, the strength of VP-FSCM-treated MS increases substantially with the decrease in distance away from the central axis of a prefabricated horizontal drain and tends to show higher spatial variability than that of PCSM treated MS.

**Keywords** Flocculation · Slurry-like mud · Solidification · Spatial distribution · Strength · Vacuum preloading

## List of symbols

MS	Mud slurry	$w_{eq}$	Equivalent initial water content, defined as the mass ratio of total water to dry soil particles in the mixture
FSCM	Flocculation-solidification combined method	$w_c$	Cementitious binder content, defined as the mass ratio of cementitious binder to dry soil particles
VP	Vacuum preloading	APAM	Anionic polyacrylamide
VP-FSCM	Vacuum preloading–flocculation–solidification combined method	OPC	Ordinary Portland cement
PCSM	Pure cement solidification method	GGBS	Ground granulated blast furnace slag
PHD	Prefabricated horizontal drain	C/G	Mass ratios of OPC to GGBS
PVD	Prefabricated vertical drain	DST	Direct shear test
$w_{at}$	After-curing water content, defined as the mass ratio of water to the solid particles at a target time	ODT	Oven-dry test
		UCT	Unconfined compressive strength test
		$s_u$	Undrained shear strength
		$s_{uT}$	The mean value of $s_u$ at the top and bottom of the VP-FSCM case
		$s_{uP}$	The mean value of $s_u$ of triplicate PCSM cases
		$\alpha$	The parameter used for quantify the superiority of VP-FSCM over PCSM in terms of strength gain behavior

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# Field Study In Flocculation As A Factor

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