

3 - 3 THE DEVELOPMENT OF DEEP MIXING SOIL STABILIZATION USING COAL ASH FGC DEEP MIXING METHOD

keywords: coal-ash, soil stabilization, deep mixing method, excavation using sheet piles, FGC

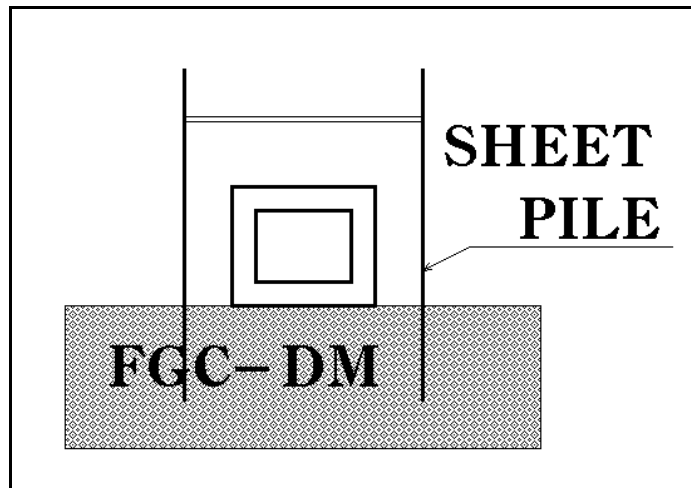
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FGC-DM is the deep mixing method of Soil Stabilization with blended FGC slurry containing Fly(Coal)- Ash(F) ,Gypsum(G),and Cement(C).

FGC-DM has Advantages of normal soil stabilizatiion ,CDM(Cement Deep Mixing method).

These Advantages are as follows.

- a) Using the FGC deep mixing method, it is of course, possible to obtain the same strength possible with the normal CDM method. And it is also possible to form improved ground in the low strength range smaller than 0.5MPa in small deviation, a type of ground difficult to prepare using the CDM system, with the same precision possible with normal strength CDM.



- b) It is possible to prepare uniformly improved ground in the low strength range smaller than 0.5 MPa using the FGC-DM . So it will also be possible to drive sheet piles and bearing piles, and pile directly in improved ground without the need for supplementary work.

In order to develop this technology ,all kind of test were executed for some years.

This paper presents the results of loratory tests,centrifuge tests and in-situ test for FGC-DM .