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(54) Title: A METHOD TO ESTIMATE THE ADDITION OF LIME-BASED ACTIVATORS FOR SOIL STABILIZATION WITH GROUND GRANULATED BLAST FURNACE SLAG (GGBS) BASED ON INITIAL PH

(57) Abstract: Herein disclosed is a method for determining an amount of activator to be added to a GGBS-treated soil, the method comprising: determining a prefix amount of a binder based on a water content of a soil sample; determining prefix amounts of the activator based on a mass of a dried sample of soil which the soil sample is prepared from; determining, based on a mass of a wet soil sample, an amount of the binder corresponding to the prefix amount of the binder and amounts of the activator respectively corresponding to the prefix amounts of the activator; mixing each one of the amounts of the activator determined and the amount of binder determined with a soil sample which has a mass equal to the mass of the wet soil sample so as to form soil-activator-binder mixtures; obtaining pH values respectively from the soil-activator-binder mixtures; and establishing a relationship between the pH values and the amounts of the activator corresponding to the pH values so as to identify from the relationship the amount of activator to be added to the GGBS-treated soil.



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