

pozzolanic reaction degrees of the tuffs in the paste were gradually increased with prolongation of curing time. After 14 days, the pozzolanic reaction degree was grown slowly down, but had been in progress for a long-term. However, the pozzolanic reaction of tuff in the paste of 10% replacement was still not completed at the age of 90 days with about half of the tuff unreacted. The analysis results revealed the consistency of CH consumption and pozzolanic reaction degree, which could be used as indicators to reflect process of pozzolanic reaction for the tuff. Variation of the pozzolanic reaction degree was improved with the bond water content, and relationship between them appeared well linear. The fitting linear regression equation can be applied to mutual conversion between pozzolanic reaction degree and bond water content.

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