
Experimental Study on the Method of Controlling Drying Shrinkage

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The authors have studied the preparation and physical properties of concrete, for the purpose of developing a technology to control the drying shrinkage strain of concrete in the range from 0×10^{-6} to 800×10^{-6} . Through the experiment, the influence of the kind of limestone gravel, the combination, the amount of shrinkage-reducing agent with an expansion material, and the cement type was confirmed, and the drying shrinkage strain control of concrete was investigated.

As a result, we have developed a technique for controlling the drying shrinkage strain by these combinations and usage. It is possible using this drying shrinkage strain control technology to provide a high-value-added concrete.