

Development of Short Fiber Reinforced Concrete Roadbed on Earth Structure

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To apply short fiber reinforced concrete to concrete roadbed on an earth structure, the mix test of the short fiber reinforced concrete was carried out paying attention to its flowability and shrinkage reduction. The test result has shown that the flowability is improved by increasing cement and fine aggregate in concrete, and the shrinkage strain is reduced by using an expansive additive and shrinkage reduction agent together. Moreover, as a result of executing trial construction of the concrete roadbed of 60m in length, the ease of construction and the shrinkage reduction effect were confirmed.