

Curing Effect on Permeability and Early-Age Shrinkage of High-Performance Concrete

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This paper presents the results of an experimental study on the influence of different environments on the permeability and early-age shrinkage of high-performance concrete. It was investigated that the duration of curing influence on the near-surface permeability and shrinkage of the concrete exposed to different environments. It is shown that water curing and high-humidity (the relative humidity $\geq 90\%$) curing decrease significantly the near-surface permeability of the concrete, which result in lower shrinkage during the initial days.