

Guide to Quality Control and Assurance of High-Strength Concrete

Reported by ACI Committee 363



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Guide to Quality Control and Assurance of High-Strength Concrete

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High-strength concrete (HSC) has emerged as a viable material to use as an alternative to conventional normal-strength concrete in infrastructure systems to reduce member cross section, extend member span length, reduce the number of system members, or enhance system sustainability. This guide offers general information on the quality control and testing of HSC. Recommendations are based on the current state of knowledge gained from worldwide experimental research, analytical work, and field applications of HSC systems used in concrete structures.

Keywords: acceptance criteria; compressive strength; concrete placement; creep; curing; delivery; modulus of elasticity; sampling; shrinkage; statistical concepts; strength evaluation; testing; trial batching; quality assurance; quality control.

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