



Shortform Specification for:  
**System-K™ Concrete**

SECTION 03 30 00 CAST-IN-PLACE CONCRETE

Use System-K™ Cement to make Type-K Shrinkage-Compensating Concrete. Manufacturer shall be CTS Cement Manufacturing Corporation, 11065 Knott Avenue, Suite A, Cypress, CA 90630. Phone: 800-929-3030. Website: [www.ctscement.com](http://www.ctscement.com)

- A. CTS System-K™ used with Type I, II, or V portland cement conforming to ASTM C150 at approximately 15% Komponent® and 85% portland cement. The percentages will be determined by a laboratory approved by CTS Cement Manufacturing Corporation performing ASTM C806 testing. Komponent® and portland cement samples shall be delivered to the laboratory 6 weeks prior to the first concrete placement.  
[Note to specifier: CTS Cement Manufacturing Corporation needs to approve the laboratory, since many laboratories are unfamiliar with the testing required for Type-K Cement and Type-K Concrete.]
- B. Material shall provide expansion from .04% to .10% at 7 days when tested in accordance with ASTM C806, provide expansion from .05% to .09% at 7 days when tested in accordance with ASTM C878, and meet ASTM C845 (modified) as a Type-K Cement.
- C. No steel reinforcement is required for non-structural concrete, such as slabs on grade.
- D. Mix, place, and finish per manufacturer's recommendations. Pre-pour conference shall be at least 1 week before the first concrete placement.
- E. Start water cure as soon as it can be done without marring the surface. Water cure for 7 days. Surface shall be kept continuously wet. Wetting and drying of the surface shall not be allowed.