



## SECTION 03 30 00 CAST-IN-PLACE CONCRETE

Use KSC System-K™, consisting of KSC Komponent® and KSC K-Fiber™, used with ASTM C150 Type I, II, or V portland cement at approximately 15% KSC System-K™ and 85% portland cement, to make Type K shrinkage-compensating concrete. Manufacturer shall be CTS Cement Manufacturing Corp., 11065 Knott Avenue, Suite A, Cypress, CA, 90630. Phone: 800-929-3030. Website: [www.ctscement.com](http://www.ctscement.com)

- A. KSC System-K™ used with Type I, II, or V Portland cement conforming to ASTM C150 at approximately 15% KSC Komponent and 85% Portland cement. The percentages will be determined by a laboratory approved by CTS Cement Manufacturing performing ASTM C806 testing. KSC 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 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 0.04% to 0.10% at 7 days when tested in accordance with ASTM C806, provide expansion from 0.05% to 0.09% at 7 days when tested in accordance with ASTM C878, and meet ASTM C845 (modified) as a Type K cement.
- C. Other than minor reinforcement (two #5 bars, 6" from the edge) around the perimeter of the slab, and double diagonal #5 bars, 4 feet long at re-entrant corners and at penetrations, no additional steel reinforcement is required for non-structural concrete.
- D. Mix, place, and finish per manufacturer's recommendations. Pre-pour conference shall be at least 1 week before 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. Drying of the surface shall not be allowed.

END OF SECTION