

ABSTRACT

Two specialty cements are currently being marketed as a way to achieve pcc pavement opening strengths at less than 12 hours after placement. The cements are Pyrament from Pyrament/Lone Star Industries of Houston, Texas and Ideal Regulated-Set (RS) Portland Cement from Ideal Cement Company of Saratoga, Arkansas. The objective of the study was to evaluate the strength gain and durability of concrete produced with Pyrament and Ideal RS cement as Fast Track concrete.

Mixes with 610 pounds of cement per cubic yard were made and tested. Both Pyrament and Ideal RS are capable of producing pavement opening times less than 12 hours. Recent changes to Ideal RS cement have produced concrete flexural strengths of 550 psi at 4 hours in Iowa tests. Freeze/thaw durability of the concrete was not adversely affected by using either cement.