# HIPERPAV Wisconsin

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## TECHNICAL SUPPORT

How can you contact The Transtec Group to answer your HIPERPAV questions?

**Call us**

1-888-451-6233

**Email us**

ask@hiperpav.com

**Visit our website**

www.hiperpav.com

*"The advantage of the customized version is that it has local inputs preset into programs so it is more efficient to use by Wisconsin engineers and contractors"*

**James Parry**
**Concrete Engineer**
**Wisconsin DOT**

THE TRANSTEC GROUP

## Transtec Offers Technical Support for HIPERPAV Wisconsin Software

HIPERPAV is a software program designed to predict early-age behavior of Portland cement concrete pavements (PCCP) based on pavement design, concrete mix design, construction methods, and environmental conditions.

The HIPERPAV software program has been customized for the Wisconsin Department of Transportation by The Transtec Group to include local conditions and materials typically utilized in Wisconsin. In implementing the software, it is believed that concrete pavements can be built with higher quality, at a lower cost, and with increased long-term performance for the great state of Wisconsin.

In February 2007, three HIPERPAV workshops were conducted by The Transtec Group to present and train the participants in using the HIPERPAV Wisconsin software. These workshops were conducted in Madison, Eau Claire, and Green Bay.

**HIPERPAV Workshop held in Green Bay.**

As more and more Wisconsin DOT staff, contractors and consultants begin to utilize the HIPERPAV Wisconsin software in projects around the state, technical questions will be asked that need to be answered. Therefore, the Wisconsin DOT has contracted The Transtec Group to address any technical questions that the user may have. In addition to technical questions, all users are encouraged to relay any feedback on possible inconsistencies or desired features that would improve the software in the future.

Download your free copy of HIPERPAV Wisconsin at **www.hiperpav.com**. For any feedback or questions, please contact us at **1-888-451-6233** or send us an email at **ask@hiperpav.com**.

## Fly Ash Analysis Currently in Progress

### New data to assist in verifying HIPERPAV Wisconsin predictions

During the workshop series in February 2007, a concern was raised by participants about the accuracy of HIPERPAV Wisconsin to predict time of set when Wisconsin fly ashes were used in cold weather. Because of this concern, it was proposed to take a closer look at predictions by evaluating the heat of hydration and time of set of certain fly ashes used in the state, and compare this with HIPERPAV predictions. Testing for heat of hydration will be performed using semi-adiabatic calorimetry, and time of set will be tested using ASTM C 403. These efforts will be carried out by Transtec and the CP Tech Center of Iowa State University.

Through laboratory testing, data analysis and data reduction, prediction values should be improved. Better prediction values will lead to improved understanding of early-age pavement behavior for Wisconsin contractors, consultants, and DOT.