**Using LTPPBind to Select Crack-Sealing Materials**

Typical specifications for crack-sealing materials include sealant property evaluations at high, moderate, and low temperatures. The evaluations provide some information on materials characteristics at those temperatures. Using LTPPBind, sealant properties at anticipated high and low temperatures can be evaluated or compared.

Obtain LTPPBind and LTPP Section data from the Long Term Pavement Performance (LTPP) program using LTPP InfoPave, by the following steps:

1. Download LTPPBind:
   1. TOOLS 🡪 LTPPBind
   2. Click “Download LTPPBind 3.1” and follow download instructions
   3. Install LTPPBind
2. Determine which LTPP Sections, if any, are on the Highway Network:
   1. MAP 🡪 View LTPP Sections by Location
   2. Using the filters on the left, narrow down the search parameters
3. Retrieve GPS Coordinates, Traffic speed, and Traffic loading data relevant to the sections identified above:
   1. Click on the selected section to view section information
   2. Click “View Section Summary Report”
   3. Print the report or extract the required data
4. Input data into LTPPBind 🡪 Select by Coordinate 🡪 PG Binder Selection

Once the high and low temperatures have been determined, reference a sealant manufacture to select the appropriate sealant.

*Example:* Using the Crafco Inc. Sealant Selection Guide (<http://www.crafco.com/Sealant/Selection%20Guide.htm>), select the Crack Seal, Crack Fill, or PCC Joint Seal based on the high and low temperatures determined by LTPPBind.

An improved understanding of pavement temperatures and corresponding material properties helps highway agencies determine the sealant materials and installation methods that provide the best results. Using LTPPBind to design and select crack-sealing treatments will help improve pavement performance, ensure longer-lasting treatments, reduce repairs, and decrease life-cycle costs.

**REFERENCES**

1. Antonio Nieves. *Using LTPPBind to Improve Crack Sealing in Asphalt Concrete Pavements*. FHWA-RD-03-080, HRDI-013/12-03(X00)E, December 2003
2. Crafco Inc., *Sealant Selection Guide.* [www.crafco.com](http://www.crafco.com).
3. Long Term Pavement Performance. *LTPP InfoPave*. [www.infopave.com](http://www.infopave.com).