

April 14, 2017

Re: Request for Information (RFI)-Rejuvenators and Surface Sealing Products to Extend Asphalt Pavement Life

Dear Potential Vendor:

The Missouri Department of Transportation (MoDOT) is seeking products for demonstration through a Request for Information (RFI) to develop a performance based specification for rejuvenating or surface sealing products that extend asphalt pavement life. MoDOT will review the submitted products, and will develop a Request for Proposal for a research project to evaluate the products through field inspection, testing and monitoring. The research project will be conducted to provide a report of each product's performance to assist in developing a performance based specification.

Background:

MoDOT is aware there are new products in the market that rejuvenate or seal asphalt pavements to extend pavement life. A field application study will be performed and evaluated by a third party researcher to provide a report of each product's performance.

The existing roadways selected will have cores extracted, retroreflectivity measured (in accordance with MoDOT TM-80), permeability tested (in accordance with MoDOT TM-83) and skid resistance tested (in accordance with ASTM E274 using FN40R skid equipment) to determine the properties that are present in the field before the application of any products. The selected route will be evenly divided into sections for evaluating each product submitted, with a control section also incorporated.

Desired Information:

The investigation will have two different application categories.

- The first category is intended to be applied to the entire lane for mainline pavement. These products shall maintain adequate friction, mix durability and wear resistance of the pavement. The vendor should indicate if there are any traffic count or speed limitations for their product. Product limitations will be documented in the study.
- The second category may be either asphalt based or other alternative products intended to seal, rejuvenate, or stabilize the asphalt pavement at longitudinal construction joints.



Each interested vendor should reply to this RFI to obtain instructions on how to submit their product for lab verification before installation. **If a vendor desires their product to be utilized on MoDOT roadways, they must respond to this RFI and submit their product for testing and evaluation, regardless of MoDOT's previous use of the product.**

When responding with interest, any indication of special equipment necessary for the application is requested. Once the products have been submitted and pass the lab review, the number of products will be determined for each application category. The products will be purchased for application, with the intent that the vendor will perform the application, based on an agreed upon scheduling opportunity. If the vendor does not do the physical application, at a minimum, they should be present on-site to give guidance on proper installation. The selected route for mainline application is located in St. Charles County; whereas, the selected route for joint application is located in Jefferson and Miller Counties. All roadways selected have an overlay approximately 2-3 years in age.

The intent is for the product to be submitted well in advance of application, and for application to take place during the 2017 season. The selected researcher will conduct a 30 day post application permeability test, retroreflectivity measurement, and skid resistance test. If any corrective action is needed for addressing safety concerns, MoDOT will correct the unacceptable test section and that product will be pulled from the evaluation study. The study will not publish any specific values for test results which can be attributed to specific products. Instead, a product's test results will be represented as a change in percentage (e.g. Product A-3% reduction in skid resistance from pre- to post- application). Each test section will be periodically monitored by the same researcher over the next two years. Coring will take place for the mainline treatment application category after one year in the field to compare performance to the pre-application cores that were tested.

Please send response of interest to MoDOTResearchRFP@modot.mo.gov.

Responses shall be received **no later than Wednesday May 3rd, 2017 at 10:00 AM (Central Standard Time)**. If you should have any comments or questions, please also submit them to the email address above.

MoDOT appreciates the interest you may have in participating in this RFI.

Sincerely,

A handwritten signature in black ink that reads "Bill Stone". The signature is written in a cursive, slightly slanted style.

Research Administrator