VTRC File No:	
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Date: <u>8/25/06</u>

## Virginia Transportation Research Council Contract/Grant Progress Report

Project No: <u>TPF5 (045)</u> Starting	Date: 3/1/2003	Target Completion Date: 12/31/06
Project Title: Development of Performance	ce Guidelines for the S	Selection of Bituminous Hot-Poured
<u>Crack Sealants</u>		
Performing Agency: <u>University of Illinois</u>		
Principal Investigator(s): Imad L. Al-Qad	_	
Date of This Report: 08/31/06	Next Report	Due Date: 11/30/06
Project Description		
The project will establish performance guidelines for the proper selection of hot-poured crack sealants.		
The guidelines will be in the spirit of the Performance Grade (PG) system for bituminous binders with		
some modifications to the equipment, data analysis procedure, and testing methods.		
<b>Research Activities Pursued This Period:</b>		
- The research team has completed the final analysis and developed a test standard for the viscosity test.		
- The BBR testing is completed (using Canon instrument) after implementing the new aging procedure.		
Test repeatability study is completed. Aging procedure has been examined and most sealants become		
stiffer. The research team has also completed the final analysis for the BBR test.		
- The blister test is currently being fine-tuned.		
- The DTT sample geometry and loading rate has been selected. The fracture toughness and the linearity		
response testing for the 15 aged sealants is underway.		
Problems Encountered:		
No major problems this quarter		
Activities Planned for Next Period:		
• Develop a methodology to correlate the rate of crack movement to the laboratory sample loading rate		
using the DTT measurements		
• Continue evaluating the fracture toughness test and the linearity response using the new DTT		
manufactured molds.		
Determine the repeatability of the semi-cylindrical adhesion fixture.		
Budget Status:		
Current FY Project Budget: \$289,862		Project Budget Lifetime: *820,000
Current FY Expenditures: \$132,054+	as of	Expenditures LTD: \$514,714
Percent Expended this FY: 47%	(Date)	Percent Expended LTD: 62.77%
+ Expenditures provided as of June 2006	(Dute)	Terecht Expended ETD, 02.77 %
- Expenditures provided as of same 2000		
<b>Timetable:</b> Project is (check):		
On Schedule	$\square$	
Behind Schedule *	(explain above)	
Ahead of Schedule		
Afficad of Schedule		

Preparer's Signature: