

ORIGNATION FORM

THE INFORMATION BELOW IS TO BE PROVIDED BY THE ORIGINATOR (The person who receives or originates the issue and needs to forward the issue for action.)

Specification: 300

Subject: Prime and Tack Coat for Base Courses

Origination date: May 28, 2009

Originator: Greg Sholar

Office/Phone: State Materials Office / 352.955.2920

Problem statement: Address issue related to simplifying the determination of the appropriate tack coat application rate for a particular pavement surface.

Proposed solution: Added a new table to simplify the determination of the appropriate tack coat application rate.

Information source: SMO bituminous staff and District staff.

Recommended Usage Note: All asphalt projects.

Estimated fiscal impact, if implemented: None.

Implementation of these changes, if and when approved, will begin with the January 2010 letting.



Florida Department of Transportation

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M E M O R A N D U M

DATE: June 10, 2009

TO: Specification Review Distribution List

FROM: Rudy Powell, Jr., P.E., State Specifications Engineer

SUBJECT: Proposed Specification: 3000804, Application of Tack Coat – Rate of Application

In accordance with Specification Development Procedures, we are sending you a copy of a proposed specification change.

This change was proposed by Tom Malerk to add a new table to simplify the determination of the appropriate tack coat application rate.

Please share this proposal with others within your responsibility. Review comments are due within four weeks and should be sent to Mail Station 75 or to my attention via e-mail at ST986RP or rudy.powell@dot.state.fl.us. Comments received after July 10, 2009, may not be considered. Your input is encouraged.

RP/dr
Attachment

APPLICATION OF TACK COAT – RATE OF APPLICATION.

(REV 6-1 09)

SUBARTICLE 300-8.4 (Page 240) is deleted and the following substituted:

300-8.4 Rate of Application: Use a rate of application ~~between 0.02 to 0.08 gal/yd² as defined in Table 300-1. Control the rate of application to be within ± 0.01 gal/yd² of the target application rate.~~ The ~~rate of application~~*target application rate* will be approved by the Engineer and may be varied or adjusted by the Engineer to meet specific field conditions. For mix placed directly on concrete pavement, set the target rate of application at 0.08 gal/yd². For mix placed on a milled surface or where the existing surface is oxidized and cracked, set the target rate of application rate at 0.06 gal/yd². For open graded friction course, set the target rate of application at 0.045 gal/yd². For mix placed on newly constructed asphalt layers, set the rate of application at 0.02 gal/yd². Determine the rate of application at the beginning of each day's production, and as needed to control the operation, *with* a minimum of twice per day. Control the rate of application to be within plus or minus 0.01 gal/yd² of that approved by the Engineer. When using RA-500, multiply the target rate of application by 0.6.

<i>Table 300-1 Tack Coat Application Rates</i>		
<i>Asphalt Mixture Type</i>	<i>Underlying Pavement Surface</i>	<i>Target Tack Rate (gal/sy)</i>
<i>Base Course, Structural Course, Dense Graded Friction Course</i>	<i>Newly Constructed Asphalt Layers</i>	<i>0.02 minimum 0.08 maximum</i>
	<i>Milled Surface or Oxidized and Cracked Pavement</i>	<i>0.06</i>
	<i>Concrete Pavement</i>	<i>0.08</i>
<i>Open Graded Friction Course</i>	<i>Newly Constructed Asphalt Layers</i>	<i>0.05</i>
	<i>Milled Surface</i>	<i>0.07</i>