



Florida Department of Transportation

CHARLIE CRIST
GOVERNOR

605 Suwannee Street
Tallahassee, FL 32399-0450

STEPHANIE KOPELOUSOS
SECRETARY

July 30, 2009

Monica Gourdine
Program Operations Engineer
Federal Highway Administration
545 John Knox Road, Suite 200
Tallahassee, Florida 32303

Re: Office of Design, Specifications
Section 300
Proposed Specification: 3000804.D01

Dear Ms. Gourdine:

We are submitting, for your approval, two copies of the above referenced Supplemental Specification.

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

Please review and transmit your comments, if any, within two weeks. Comments should be sent via Email to ST986RP or rudy.powell@dot.state.fl.us.

If you have any questions relating to this specification change, please call Rudy Powell, State Specifications Engineer at 414-4280.

Sincerely,

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

RP/dr

Attachment

cc: Gregory Jones, Chief Civil Litigation
Florida Transportation Builders' Assoc.
State Construction Engineer

APPLICATION OF TACK COAT – RATE OF APPLICATION.
(REV 7-29-09)

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 *a minimum of twice per day, once* 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~~ *550*, multiply the target rate of application by 0.6.

<i>Asphalt Mixture Type</i>	<i>Underlying Pavement Surface</i>	<i>Target Tack Rate (gal/yd²)</i>
<i>Base Course, Structural Course, Dense Graded Friction Course</i>	<i>Newly Constructed Asphalt Layers</i>	<i>0.02 minimum</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>

APPLICATION OF TACK COAT – RATE OF APPLICATION.
(REV 7-29-09)

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

300-8.4 Rate of Application: Use a rate of application as defined in Table 300-1. Control the rate of application to be within ± 0.01 gal/yd² of the target application rate. The target application rate may be adjusted by the Engineer to meet specific field conditions. Determine the rate of application a minimum of twice per day, once at the beginning of each day's production and as needed to control the operation. When using RA-550, multiply the target rate of application by 0.6.

Table 300-1 Tack Coat Application Rates		
Asphalt Mixture Type	Underlying Pavement Surface	Target Tack Rate (gal/yd ²)
Base Course, Structural Course, Dense Graded Friction Course	Newly Constructed Asphalt Layers	0.02 minimum
	Milled Surface or Oxidized and Cracked Pavement	0.06
	Concrete Pavement	0.08
Open Graded Friction Course	Newly Constructed Asphalt Layers	0.05
	Milled Surface	0.07