



Florida Department of Transportation

RON DESANTIS
GOVERNOR

605 Suwannee Street
Tallahassee, FL 32399-0450

KEVIN J. THIBAUT, P.E.
SECRETARY

July 13, 2021

Khoa Nguyen
Director, Office of Technical Services
Federal Highway Administration
3500 Financial Plaza, Suite 400
Tallahassee, Florida 32312

Re: State Specifications Office
Section: **300**
Proposed Specification: **3000100 PRIME AND TACK COATS.**

Dear Mr. Nguyen:

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

The changes are proposed by Richard Hewitt to simplify tack rates in the Standard Specification.

Please review and transmit your comments, if any, within two weeks. Comments should be sent via email to daniel.strickland@dot.state.fl.us.

If you have any questions relating to this specification change, please call me at 850-414-4130.

Sincerely,

Signature on file

Daniel Strickland, P.E.
State Specifications Engineer

DS/dh

Attachment

cc: Florida Transportation Builders' Assoc.
State Construction Engineer

PRIME AND TACK COATS.
(REV 5-25-21)

ARTICLE 300-1 is deleted and the following substituted:

300-1 Description.

Apply bituminous prime coats on previously prepared bases, and apply bituminous tack coats on previously prepared bases and on existing pavement surfaces.

SUBARTICLE 300-8.4 is deleted and the following substituted:

300-8.4 Application Rate: Use an application rate defined in Table 300-2. Control the application rate within plus or minus 0.01 gallon per square yard of the target application rate. The target application rate may be adjusted by the Engineer to meet specific field conditions. Determine and record the application rate a minimum of twice per day, once at the beginning of each day's production and again, as needed, to control the operation. When using PG 52-28, multiply the target application rate by 0.6.

<u>Table 300-2</u> <u>Tack Coat Application Rates</u>		
<u>Asphalt Mixture Type</u>	<u>Underlying Pavement Surface</u>	<u>Target Tack Rate</u> <u>(gal/yd²)</u>
<u>Base Course, Structural Course, Dense Graded Friction Course</u>	<u>Newly Constructed Asphalt Layers</u>	<u>0.05 minimum</u>
	<u>Milled Surface or Oxidized and Cracked Pavement</u>	<u>0.07</u>
	<u>Concrete Pavement</u>	<u>0.09</u>
<u>Open Graded Friction Course</u>	<u>Newly Constructed Asphalt Layers</u>	<u>0.06</u>
	<u>Milled Surface</u>	<u>0.08</u>

<u>Table 300-2</u> <u>Tack Coat Application Rates</u>		
<u>Asphalt Mixture Type</u>	<u>Underlying Pavement Surface</u>	<u>Target Tack Rate</u> <u>(gal/yd²)¹</u>
<u>Base Course, Structural Course, Dense-Graded Friction Course, Open-Graded Friction Course</u>	<u>Newly Constructed Asphalt Layers</u>	<u>0.06</u>
	<u>Milled Asphalt Pavement Surface, Oxidized and Cracked Asphalt Pavement, Concrete Pavement</u>	<u>0.09</u>

Note 1: Target tack application rates greater than those specified may be used upon approval of the Engineer.

When using a meter to control the tack or prime application rate, manually measure the volume in the tank at the beginning and end of the application area for a specific target application rate. Perform this operation at a minimum frequency of once per production shift. Resolve any differences between the manually measured method and the meter to ensure

| the target application rate is met in accordance with this Section. Adjust the application rate if the manually measured application rate is greater than plus 0.02 or minus 0.01 gallons per square yard when compared to the target application rate.

PRIME AND TACK COATS.

(REV 5-25-21)

ARTICLE 300-1 is deleted and the following substituted:

300-1 Description.

Apply bituminous prime coats on previously prepared bases and apply bituminous tack coats on previously prepared bases and on existing pavement surfaces.

SUBARTICLE 300-8.4 is deleted and the following substituted:

300-8.4 Application Rate: Use an application rate defined in Table 300-2. Control the application rate within plus or minus 0.01 gallon per square yard of the target application rate. The target application rate may be adjusted by the Engineer to meet specific field conditions. Determine and record the application rate a minimum of twice per day, once at the beginning of each day’s production and again, as needed, to control the operation. When using PG 52-28, multiply the target application rate by 0.6.

Table 300-2 Tack Coat Application Rates		
Asphalt Mixture Type	Underlying Pavement Surface	Target Tack Rate (gal/yd ²) ¹
Base Course, Structural Course, Dense-Graded Friction Course, Open-Graded Friction Course	Newly Constructed Asphalt Layers	0.06
	Milled Asphalt Pavement Surface, Oxidized and Cracked Asphalt Pavement, Concrete Pavement	0.09
Note 1: Target tack application rates greater than those specified may be used upon approval of the Engineer.		

When using a meter to control the tack or prime application rate, manually measure the volume in the tank at the beginning and end of the application area for a specific target application rate. Perform this operation at a minimum frequency of once per production shift. Resolve any differences between the manually measured method and the meter to ensure the target application rate is met in accordance with this Section. Adjust the application rate if the manually measured application rate is greater than plus 0.02 or minus 0.01 gallons per square yard when compared to the target application rate.