

SECRETARY

RON DESANTIS GOVERNOR

May 15, 2025

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

Re: State Specifications Office Section: 300 Proposed Specification: 3000900 Prime and Tack Coats* *Associated: 9160302 Bituminous Materials

Dear Ms. Kendall:

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

The changes are proposed by Greg Sholar to move select Division III language to the correct placement in Division II

Please review and transmit your comments, if any, within two weeks (10 business days). Comments should be sent via email 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

Florida Transportation Builders' Assoc. cc: State Construction Engineer

www.fdot.gov

PRIME AND TACK COATS

(3-18-25)

ARTICLE 330-9 is deleted and the following substituted:

300-9 Sampling and Testing.

At the direction of the EngineerAs directed by the Engineer, sample tack in accordance with AASHTO R 66, sample tack from the distributor used on the project at a minimum frequency of once per project per product. The sample shall be tested by Provide the sample to the Department for testing of the following specified material properties: percent residue, contaminants, and the residue property G*/sin \delta. Should any of the test results fail the specification requirements, the The tack material will be considered defective and shall not to be used on Department projects if any of the test results fail the material requirements unless waived by the Engineer. Should a tack sample fail specifications, the Engineer may require three 6 inch diameter roadway cores be obtained from the day of production from which the tack sample was obtained. Cease use of the defective tack material. Obtain three 6-inch diameter roadway cores at locations identified by the Engineer from the day of production where the defective tack sample was obtained. Exceptions to these requirements will only be allowed if approved by the Engineer. The Department will test the roadway cores shall be tested for bond strength in accordance with FM 5-599. Remove and replace material represented by any core with an Lindividual bond strength results less than 80 psi. will require removal and replacement. Failing bond strength results may result in bond strength testing for additional areas represented by the failingdefective tack material.

ARTICLE 300-10 is deleted and the following substituted:

300-9-<u>10 Method of Measurement.</u>

300-910.1 General: The quantity specified will be the volume, in gallons, of bituminous material <u>actually</u> applied and accepted. This application rate will be determined from measurements made by the Contractor and verified by the Engineer based on tank calibrations, as specified in 300-9<u>10</u>.2. Where it is specified prime coat material is to be diluted with water, the amount specified for the application rate will be the volume after dilution.

300-910.2 Calibration of Tanks: Ensure all distributors used for applying tack or prime coats are calibrated prior to use by a reliable and recognized firm engaged in calibrating tanks. Submit a certification of calibration and the calibration chart to the Engineer prior to use. In lieu of a volumetrically calibrated distributor, use a distributor equipped with a calibrated meter approved by the Engineer.

300-9<u>10</u>.3 **Temperature Correction:** Measure the volume and increase or decrease the volume actually measured to a corrected volume at a temperature of 60°F.

Make the correction for temperature by applying the applicable conversion factor (K), as shown below.

For petroleum oils having a specific gravity above 0.966 at 60°F, K = 0.00035 per degree.

For petroleum oils having a specific gravity of between 0.850 and 0.966 at 60°F, K = 0.00040 per degree.

Commented [GS1]: This wording for the entire Article 300-9 is being moved verbatim from Section 916 to this Section. Section 916 is in Division III and this wording belongs in Division II.

There are subsequent changes for renumbering of Articles and Subarticles in this Section and in Section 341. The entire Specification book has been searched and only Sections 300 and 341 are affected by the renumbering.

Additional editorial changes have been made to this article, as shown in redline format.

For emulsified asphalt, K = 0.00025 per degree.

When volume-correction tables based on the above conversion factors are not available, use the following formula in computing the corrections for volumetric change:

$$V = \frac{V^1}{K(T - 60) + 1}$$

Where:

V= Volume of bituminous material at 60°F (pay volume). V¹= Volume of bituminous material as measured. K= Correction factor (Coefficient of Expansion). T= Temperature (in °F), of bituminous material when measured.

ARTICLE 300-11 is deleted and the following substituted:

300-10-11 Basis of Payment.

There is no direct payment for the <u>The</u> work specified in this Section, it is incidental to, and is to be included in the other items of related work. will not be paid for directly, but will be considered as incidental work.

PRIME AND TACK COATS (3-18-25)

ARTICLE 330-9 is deleted and the following substituted:

300-9 Sampling and Testing.

As directed by the Engineer, sample tack in accordance with AASHTO R 66 from the distributor used on the project at a minimum frequency of once per project per product. Provide the sample to the Department for testing of the following specified material properties: percent residue, contaminants, and the residue property $G^*/\sin \delta$. The tack material will be considered defective if any of the test results fail the material requirements. Cease use of the defective tack material. Obtain three 6-inch diameter roadway cores at locations identified by the Engineer from the day of production where the defective tack sample was obtained. Exceptions to these requirements will only be allowed if approved by the Engineer. The Department will test the roadway cores for bond strength in accordance with FM 5-599. Remove and replace material represented by any core with an individual bond strength result less than 80 psi. Failing bond strength results may result in bond strength testing for additional areas represented by the defective tack material.

ARTICLE 300-10 is deleted and the following substituted:

300-10 Method of Measurement.

300-10.1 General: The quantity specified will be the volume, in gallons, of bituminous material applied and accepted. This application rate will be determined from measurements made by the Contractor and verified by the Engineer based on tank calibrations, as specified in 300-10.2. Where it is specified prime coat material is to be diluted with water, the amount specified for the application rate will be the volume after dilution.

300-10.2 Calibration of Tanks: Ensure all distributors used for applying tack or prime coats are calibrated prior to use by a reliable and recognized firm engaged in calibrating tanks. Submit a certification of calibration and the calibration chart to the Engineer prior to use. In lieu of a volumetrically calibrated distributor, use a distributor equipped with a calibrated meter approved by the Engineer.

300-10.3 Temperature Correction: Measure the volume and increase or decrease the volume actually measured to a corrected volume at a temperature of 60°F.

Make the correction for temperature by applying the applicable conversion factor (K), as shown below.

For petroleum oils having a specific gravity above 0.966 at 60°F, K = 0.00035 per degree.

For petroleum oils having a specific gravity of between 0.850 and 0.966 at 60°F, K = 0.00040 per degree.

For emulsified asphalt, K = 0.00025 per degree.

When volume-correction tables based on the above conversion factors are not available, use the following formula in computing the corrections for volumetric change:

Commented [GS2]: This wording for the entire Article 300-9 is being moved verbatim from Section 916 to this Section. Section 916 is in Division III and this wording belongs in Division II.

There are subsequent changes for renumbering of Articles and Subarticles in this Section and in Section 341. The entire Specification book has been searched and only Sections 300 and 341 are affected by the renumbering.

Additional editorial changes have been made to this article, as shown in redline format.

$$V = \frac{V^{l}}{K \left(T - 60\right) + 1}$$

Where:

V= Volume of bituminous material at 60°F (pay volume).

 V^{1} = Volume of bituminous material as measured.

K= Correction factor (Coefficient of Expansion).

T= Temperature (in °F), of bituminous material when measured.

ARTICLE 300-11 is deleted and the following substituted:

300-11 Basis of Payment.

The work specified in this Section will not be paid for directly, but will be considered as incidental work.