*INCLUDE SECTION 412 ON ALL PROJECTS WITH 401, 402, 403, 404, 405, 418, 559, AND/OR 609 (ASPHALT CURB) WORK AND WHEN RECOMMENDED BY THE PAVEMENTS REPORT/MEMO AND/OR BY THE MATERIALS ENGINEER*

$$412.00A

Section 412. — ASPHALT TACK COAT

Revised 11 October 2024

*INCLUDE CLAUSE $$412.06A ON ALL PROJECTS WITH 412 ASPHALT TACK COAT APPLICATION - VERIFY WITH MATERIALS ENGINEER IF CLAUSE IS APPROPRIATE TO USE*

$$412.06A

412.06. Add the following to the second paragraph:

Control the rate of application within plus or minus 0.01 gallons per square yard of the target application rate and within the allowable range. Provide the CO with the specific gravity of the bituminous material corrected for spray temperature.

*INCLUDE CLAUSE $$412.07A WHEN ONE OR MORE OF THE FOLLOWING SITUATIONS APPLY:*

1. *A 412 ASPHALT TACK COAT PAY ITEM IS INCLUDED.*
2. *FOR LARGE PROJECTS, WHICH ARE TYPICALLY DEFINED AS ONE OR MORE OF THE FOLLOWING:*

* *THE LENGTH OF THE PAVED ROADWAY IS 2-LANE MILES OR MORE OF CONTINUOUS ASPHALT CONCRETE PAVEMENT PLACEMENT; AND/OR*
* *THE AVERAGE DAILY TRAFFIC OF ANY ROAD ON THE PROJECT IS GREATER THAN 3000 VEH/DAY).*

*(THE LARGE PROJECT DEFINITION DOES NOT ALWAYS DETERMINE WHETHER OR NOT TO INCLUDE A 412 PAY ITEM)*

1. *WHEN RECOMMENDED BY MATERIALS ENGINEER (VERIFY WITH MATERIALS ENGINEER IF CLAUSE IS APPROPRIATE TO USE).*

*(IF CLAUSE $$412.07A IS USED, ALSO INCLUDE CLAUSE $$412.99A)*

$$412.07A

412.07. Add the following:

Test distributor for residual application rate and frequency in accordance with Table 412-1, ASTM D2995, Option A, and the following:

1. Record the tare weight of the nonwoven geotextile materials;
2. Place the nonwoven geotextile on the road surface;
3. Apply the tack coat over the nonwoven geotextile;
4. Immediately record the weight of the nonwoven geotextile with tack coat;
5. Record the temperature of the tack coat;
6. Subtract the tare weight of the nonwoven geotextile to determine the weight of tack coat;
7. Convert the weight of tack coat to application rate according to ASTM D2995, Section 8, Calculation (Transverse Application Rate);
8. Correct the calculated application rate using temperature correction multiplier shown in the Asphalt Institute, *A Basic Asphalt Emulsion Manual*, Table B-1; and
9. Determine the tack coat residual application rate using the residual percentages shown in ASTM D2995, Table 1.

*INCLUDE CLAUSE $$412.08A WHEN A 412 ASPHALT TACK COAT PAY ITEM IS* ***NOT*** *INCLUDED AND THE TACK COAT IS CONSIDERED SUBSIDIARY TO THE ASPHALT WORK (IF CLAUSE $$412.08A IS USED, DO NOT INCLUDE CLAUSE $$412.08B)*

$$412.08A

412.08 and 412.09. Delete the Subsections and substitute the following:

**Measurement and Payment**

**412.08** Do not measure asphalt tack coat for payment. See Subsection 109.05.

*INCLUDE CLAUSE $$412.08B WHEN A 412 ASPHALT TACK COAT PAY ITEM IS INCLUDED (IF CLAUSE $$412.08B IS USED, DO NOT INCLUDE CLAUSE $$412.08A)*

$$412.08B

412.08. Add the following to the second paragraph:

Material quantities placed in excess of the approved application rates will not be measured for payment.

*SEE INSTRUCTIONS FOR CLAUSE $$412.07A. INCLUDE CLAUSE $$412.99A WHEN CLAUSE $$412.07A IS INCLUDED*

$$412.99A

Add the following to Table 412-1:

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Table 412-1 (continued)**  **Sampling, Testing, and Acceptance Requirements** | | | | | | | | | |
| **Material or**  **Product**  **(Subsection)** | **Type of**  **Acceptance**  **(Subsection)** | **Characteristic** | **Category** | **Test Methods**  **Specifications** | **Sampling**  **Frequency** | **Point of**  **Sampling** | **Split**  **Sample** | **Reporting**  **Time** | **Remarks** |
| **Production (continued)** | | | | | | | | | |
| Emulsified  asphalt  or  asphalt  binder | Measured &  tested for  conformance  (106.04) | Quality | − | ASTM D2995, Option A | 1 at start of  work  &  1 per  2500 linear  feet | Behind distributor truck before material breaks & before paving | No | Upon  completion  of  measurement | Completed  by  Contractor  &  observed  by the CO |