

SP00745 (2015 Specifications: ~~05-07-10-15~~-15)

(This Section requires SP00730.
Requires SP00738 when Safety
Edge is required.)

SECTION 00745 - ASPHALT CONCRETE PAVEMENT - STATISTICAL ACCEPTANCE

(Follow all instructions. If there are no instructions above a subsection, paragraph, sentence, or bullet, then include them in the project. The specifications may be modified to include project specific specifications, but all additions, deletions, or modifications must be sent to the ODOT Technical Resource and Senior Specifications Engineer for review and approval.)

~~(Use the following lead-in paragraph when subsections .46(b), .51, and .80 are NOT included in this project.)~~

Comply with Section 00745 of the Standard Specifications.

~~(Use the following lead-in paragraph when subsection .46(b), .51, or .80 are included in this project.)~~

Comply with Section 00745 of the Standard Specifications modified as follows:

00745.10(a-1-a) Separated Sizes - In the paragraph that begins "The number of fine aggregate...", replace "00745.13(b)" with "00745.13(a)".

(Use the following lead-in paragraph and subsection .11(d) when latex polymer treatment of aggregate is listed as an option in the pavement design report.)

Add the following subsection:

00745.11(d) Aggregate Treatment - Latex Polymer - A latex polymer aggregate treatment material may be used to treat new crushed aggregates instead of lime if Tensile Strength Ratio test results on the mixture with the latex polymer treatment at the JMF meet the minimum criteria in 00745.13(a).

(1) General:

a. Provide a system to automatically meter the latex emulsion at the proper rate and apply the emulsion uniformly to the aggregate prior to the addition of the asphalt cement. Follow manufacturer's recommendations to set up, adjust, and calibrate the equipment.

b. Demonstrate to the Engineer's satisfaction that the required application rate of latex solids is being met. If it is not, take corrective action. Document and notify the Engineer of the corrective action.

(2) Material - Use latex polymer emulsion concentrate meeting the following:

<u>Minimum</u>	<u>Maximum</u>	<u>Test Method</u>
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<u>Solids Percent</u>	<u>65.0</u>	<u>–</u>	<u>ASTM D 1417</u>
<u>pH</u>	<u>9.0</u>	<u>11.0</u>	<u>ASTM D 1417</u>
<u>Brookfield Viscosity</u>	<u>500</u>	<u>3000</u>	<u>ASTM D 1417</u>
<u>Spindle 3, 20 RPM, cPs</u>			

Provide a quality compliance certificate for the polymer latex emulsion concentrate to the Engineer according to 00165.35.

(3) Application Rate - Apply the latex emulsion to achieve a minimum of 0.75 pounds of latex solids per ton of new aggregate (0.0375%) for dense graded mixtures and a minimum of 0.50 pounds of latex solids per ton of aggregate (0.025%) for open-graded mixtures. Higher application rates may be required to meet minimum TSR limits. Determine application rate during mix design testing.

(4) Treatment During ACP Production:

a. Adjust aggregate moisture content to meet the manufacturer's recommendation for emulsion application. Apply the latex emulsion at the minimum rate specified above or at a higher rate if TSR testing indicates a higher rate is required.

b. Apply the latex emulsion to the aggregate just prior to entry into dryer drum. Mix aggregate with the emulsion in a pugmill or in the dryer drum prior to application of asphalt cement. Heat aggregates to at least 250 °F after treatment and prior to addition of asphalt cement.

00745.13 Job Mix Formula Requirements - In the paragraph that begins "Do not begin production...", replace "00745.13(b) and 00745.13(c)" with "00745.13(a) and 00745.13(b)".

In the paragraph that begins "Provide a range of proposed...", replace "00745.13(b)" with "00745.13(a)".

(Use the following subsection .46(b) when required by the pavement design report.)

00745.46(b) Depositing - Replace the paragraph that begins "Deposit ACP from..." with the following paragraph:

Deposit ACP from the hauling vehicles so segregation is prevented. Do not deliver the ACP directly into the paving machine for wearing courses where the continuous length of the panel is greater than 500 feet. Deliver the ACP to the paving machine by either a windrow pick-up machine or an end-dump transfer machine.

(Use the following lead-in paragraph and one of the following subsection .51's when traffic restrictions are required. Obtain information from the pavement designer. Delete what does not apply.)

Add the following subsection:

[Use this .51 when paving through the top base course is required.]

00745.51 Opening Sections to Traffic - Schedule work so, that, during the same shift, the surfaces being paved are paved full width and length through the top base course before opening to traffic. Traffic will be allowed on the top base course up to ____ Calendar Days.

Before beginning wearing course paving operations, make repairs to the existing surface as directed. Payment for the repairs will be made according to 00195.20.

[Use this .51 when paving through the wearing course is required.]

00745.51 Opening Sections to Traffic - Schedule work so, that, during the same shift, the surfaces being paved are paved full width and length through the wearing course before opening to traffic.

(Use the following subsection .80 when either of the following apply:

- including aAn estimated specific gravity for aggregate will be included in the project.*
- No separate measurement will be made for liquid asphalt.—Obtain the specific gravity for the project from the Designer.)*

00745.80 Measurement -

(Use the following two paragraphs when including an estimated specific gravity for aggregate. Obtain the specific gravity for the project from the Designer and fill in the blank.)

Add the following paragraph to the beginning of this subsection:

The quantities of ACP shown in the Contract Schedule of Items were computed on the basis of aggregates having a Specific Gravity of ____-.

(Use the following two paragraphs when no separate measurement will be made for the liquid asphalt. Do NOT use on NHS projects or on projects that have more than 150 tons of liquid asphalt. When used, be sure to also include the boilerplate language under subsection .90.)

Replace the paragraph that begins "The quantities of ACP..." with the following paragraph:

The quantities of ACP will be measured on the weight basis. No separate measurement will be made for asphalt cement used in the mixture. No deduction will be made for lime or any other additive used in the mixture.

(Use the following subsection .90 when either of the following apply:

- Latex polymer treatment of aggregate is listed as an option in the pavement design report.*
- No separate payment will be made for the liquid asphalt.)*

00745.90 Payment -

(Use the following paragraph and bullet when latex polymer treatment of aggregate is listed as an option in the pavement design report.)

In the paragraph that begins "No separate or additional payment...", add the following bullet to the end of the bullet list:

- aggregate treatment - latex polymer

(Use the following two paragraphs when no separate payment will be made for the liquid asphalt. Do NOT use on NHS projects or on projects that have more than 150 tons of liquid asphalt. When used, be sure to also include the boilerplate language under subsection .80.)

Add the following paragraph to the end of this subsection:

No separate or additional payment will be made for asphalt cement used in the mixture.