

**SECTION 00711 - PRE-COATED AGGREGATE ASPHALT CHIP SEAL**

*(Follow all instructions and make all edits with "Track Changes" turned on. If there are no instructions [purple text] above a subsection, paragraph, sentence, or bullet, then include it in the project. Delete all purple text before preparing the final document. All other modifications to this Section will require ODOT Technical Resource and State Specifications Engineer approval.)*

Comply with Section 00711 of the Standard Specifications modified as follows:

**00711.10(a) Grading** - Replace the paragraph that begins "Perform sieve analysis ..." with the following paragraph:

Perform sieve analysis according to AASHTO T 27 and AASHTO T 11. Furnish Aggregate meeting the following gradation:

**00711.10(b) Fractured Faces** - Replace this subsection, except for the subsection number and title, with the following:

Furnish Aggregate consisting of broken stone, crushed Gravel, or a combination of both. Crush Aggregate such that at least 90 percent by weight of the total Aggregate retained on the No. 8 and larger sieves is fractured on two faces, as determined according to AASHTO T 335.

**00711.10(c) Unit Weight of Aggregate** - Replace this subsection, except for the subsection number and title, with the following:

Furnish Aggregate with a minimum unit weight of 90 pounds per cubic foot according to AASHTO T 19.

**00711.10(d) Soundness** - Replace this subsection, except for the subsection number and title, with the following:

Furnish Aggregate with a weighted loss not exceeding 12 percent when subjected to five cycles of the soundness test using sodium sulfate according to AASHTO T 104.

**00711.10(e) Durability** - Replace the paragraph that begins "Provide Aggregate ..." with the following paragraph:

Furnish Aggregate meeting the following durability requirements:

**00711.10(f) Harmful Substances** - Replace the paragraph that begins "Provide Aggregate ..." with the following paragraph:

Furnish Aggregate meeting the following harmful substances requirements:

**00711.11 Asphalt Binder** - Replace this subsection, except for the subsection number and title, with the following:

Furnish AC15-5TR or AC-15P asphalt according to the requirements of ODOT's publication *Standard Specifications for Asphalt Materials*. Copies of the publication are available from the ODOT Pavement Services Engineer. The applicable Specifications are those contained in the current publication on the date the Project is advertised.

**00711.16 Acceptance of Aggregate** - Replace this subsection, except for the subsection number and title, with the following:

The Contractor's quality control tests are used for acceptance of Aggregates if verified by the Quality Assurance Program. The Agency will perform Aggregate production quality assurance according to Section 00165.

Obtain asphalt binder samples according to AASHTO R 66 at a frequency of one sample for each 50 Tons of asphalt binder used. Samples are tested at the ODOT Materials Laboratory, or other laboratory as designated by the Agency.

**00711.17 Pre-Coated Aggregate Mixture** - Replace the bullet that begins "Achieve at least a 90 ..." with the following bullet:

- Achieve at least a 90 percent coating on all the material retained on the No. 4 sieve by applying between 0.7 and 1.0 percent liquid asphalt of the total weight of the material. Establish the target value and obtain the Engineer's approval before beginning the coating process. The acceptable liquid asphalt tolerance is  $\pm 0.2$  percent. Test according to ODOT TM 321 at a frequency of one test for every 500 Tons of mixture. Coated Aggregate that is not within the acceptable tolerance is rejected.

Replace the bullet that begins "Final acceptance of the ..." with the following bullet:

- Final acceptance of the pre-coated Aggregate mixture is completed at the stockpile staging site.

**00711.21 Asphalt Distributors** - Replace the bullet that begins "Capable of applying ..." with the following bullet:

- Capable of applying the asphalt on variable surface widths up to 16 feet, at readily determined and controlled rates from 0.05 - 2.0 gallons per square yard, and with uniform pressure. Do not vary any specified rate by more than 0.02 gallons per square yard.

**00711.22 Chip Spreaders** - Replace the bullet that begins "Equipped with a surface ..." with the following bullet:

- Equipped with a surface temperature thermometer that reads the surface temperature in advance of Rock placement and be visible to the chip spreader operator.

**00711.40 Season, Weather and Temperature Limitations** - Replace the title of this subsection with "Weather Limitations".

**00711.44 Application Rates** - Replace the paragraph that begins "Apply the asphalt binder ..." with the following paragraph:

Apply the asphalt binder and spread the pre-coated Aggregate mixture within the following ranges of rates. The exact application and spread rate is determined by the Engineer.

**00711.47 Shaping and Compacting** - Replace the paragraph that begins "Make the initial compaction ..." with the following paragraph:

Make the initial compaction Pass behind the spreader as soon as the pre-coated Aggregate mixture is spread. Hauling Equipment may be used to assist in compaction immediately behind the spreader. Use sufficient pneumatic rollers to cover the width of the pre-coated Aggregate mixture spread in one Pass. Roll in a staggered pattern. Operate rollers to maintain close proximity to the spreader but do not exceed 5 mph. Complete at least three roller Passes within 30 minutes of spreading pre-coated Aggregate mixture. If rollers are unable to keep up with the spreader, stop application of asphalt binder and pre-coated Aggregate mixture until to rollers catch up or provide additional rollers. If pre-coated Aggregate mixture spreading is stopped for more than 2 minutes, move the spreader ahead of or off the surface so that cover Material may be immediately rolled.

**00711.60 Power Brooming** - Replace the paragraph that begins "After rolling the pre-coated ..." with the following paragraph:

After rolling the pre-coated Aggregate mixture, remove loose Aggregate by brooming the entire surface. Delay brooming if the brooms damage the surface. Broom one Pass in the opposite direction that the pre-coated Aggregate mixture was placed. Do not allow uncontrolled traffic on the surface until all brooming of excess Aggregate is completed.

**00711.90 Payment** - Replace the paragraph that begins "Payment will be payment ..." with the following paragraph:

Payment will be payment in full for furnishing and placing all Materials, and for providing all Equipment, labor, and Incidentals necessary to complete the Work as specified.