

**SECTION 406A
PLANT MIX DENSE-GRADED ANTI-SKID PAVEMENT
(Section Added to FP-03)**

DESCRIPTION

406A.01 This work shall consist of furnishing all materials and constructing dense-graded anti-skid pavement surface on a prepared concrete pavement or asphaltic concrete foundation in accordance with these specifications and conforming with the lines, grades, widths and thicknesses and typical cross-sections shown on the plans or established by the Contracting Officer.

The dense graded anti-skid pavement shall be constructed in conformity with the applicable requirements of Section 402.

MATERIALS

406A.02 **Aggregate:** Aggregates shall conform to subsection 703.08. The composition of coarse and fine aggregates shall be tested in accordance with AASHTO T-11 and T-27, and shall conform with the gradations requirements as tabulated herein.

The type of aggregate to be used for the anti-skid pavement shall be basalt or approved equal. Gradation shown shall be applicable to any aggregate approved for use. Limestone, relatively pure carbonate aggregates or any aggregates known to polish will not be accepted and shall not be used in the mix.

Los Angeles Abrasion Wear for aggregates shall not exceed 30. Allowable

absorption for aggregates shall not exceed 3 %.

| Gradation and Mix Requirements | | | |
|---------------------------------------|------------------------|--|------------------|
| <u>Sieve</u> | Master Range | | Job Mix |
| <u>Size</u> | <u>Percent Passing</u> | | <u>Tolerance</u> |
| 1/2" | 97-100 | | |
| 3/8" | - | | |
| No. 4 | 57- 69 | | +/- 6 % |
| No. 8 | 41- 49 | | +/- 6 % |
| No. 16 | - | | +/- 4 % |
| No. 30 | 22 - 30 | | +/- 4 % |
| No. 50 | 13 - 21 | | +/- 3 % |
| No. 200 | 3 - 8 | | +/- 2 % |
| % of A.C. | 6 - 7 | | +/- 0.5 % |
| Temperature | 275° - 325° F | | +/- 20° F |

The Contracting Officer will evaluate the proposed job mix formula and shall make adjustment if necessary, to meet specified design criteria.

Asphalt – Asphalt cement shall be 60/70 penetration grade conforming to AASHTO M20 or ASTM D946.

High-tensile strength reinforcing (micro) fibers is required for all HMA Friction Course when placed.

Polymer additive is required in all HMA Friction Course when placed.

No recycled asphalt pavement material is allowed in the friction course hot mix asphalt.

CONSTRUCTION REQUIREMENTS

406A.03 The dense-graded anti-skid pavement shall consist of a mixture of approved aggregate and asphalt cement.

Prior to production, the Contractor shall submit to the Contracting Officer for approval a written job mix formula for the dense-graded anti-skid pavement. The submittal shall include a list of all sources of materials and provide adequate samples of all aggregate and asphalt in order to allow verification of the suitability of the proposed job mix. Job mix suitability will be determined on the basis of laboratory tests.

The following sets forth the recommended aggregate gradation and job mix requirements for the anti-skid pavement.

Unless otherwise specified or directed by the Engineer, conduct dense-grade anti-skid pavement according to the requirements of Subsection 402.03 through 402.17.

MEASUREMENTS

406A.04 Measure dense-graded anti-skid pavement listed in the bid schedule according to Subsection 109.02

PAYMENTS

406A.05 The accepted quantities will be paid at the contract price per unit of measurement for the Section 406A pay item listed in the bid schedule. Payment will be full compensation for the work prescribed in this Section including all incidentals. See Subsection 109.05

| Pay Item | Pay Unit |
|--|-------------|
| Dense Graded Anti-Skid Asphalt Pavement, 1-inch thick reinforced with FORTA-FI, Grading “E” | Square Yard |

END OF SECTION 406A

**END OF DIVISION 400
ASPHALT PAVEMENTS AND SURFACE
TREATMENTS**