

## **ASPHALT CONCRETE FRICTION COURSES.**

**(REV 11-10-16) (11-16)**

SUBARTICLE 337-3.2 is deleted and replaced by the following:

### **337-3.2 Specific Component Requirements by Mix:**

#### **337-3.2.1 FC-5:**

**337-3.2.1.1 Aggregates:** Use an aggregate blend which consists of either 100% crushed granite, 100% crushed Oolitic limestone or 100% other crushed materials (as approved by the Engineer for friction courses per Rule 14-103.005, Florida Administrative Code).

Crushed limestone from the Oolitic formation may be used if it contains a minimum of 12% silica material as determined by FM 5-510 and the Engineer grants approval of the source prior to its use.

A list of aggregates approved for use in friction course may be available on the Department's website. The URL for obtaining this information, if available, is: <http://www.fdot.gov/materials/mac/production/frictioncourse.pdf>.

**337-3.2.1.2 Asphalt Binder:** Use an asphalt binder as called for in the Contract Documents meeting the requirements of Section 916.

**337-3.2.1.3 Hydrated Lime:** Add the lime at a dosage rate of 1.0% by weight of the total dry aggregate to mixes containing granite.

**337-3.2.1.4 Liquid Anti-strip Additive:** Use a liquid anti-strip additive at a rate of 0.5% by weight of the asphalt binder for mixtures containing limestone aggregate. Other rates of anti-strip additive may be used upon approval of the Engineer.

**337-3.2.1.5 Fiber Stabilizing Additive:** Add either mineral fibers at a dosage rate of 0.4% by weight of the total mix, or cellulose fibers at a dosage rate of 0.3% by weight of total mix.

#### **337-3.2.2 FC-9.5 and FC-12.5:**

**337-3.2.2.1: Aggregates:** Use an aggregate blend that consists of crushed granite, crushed Oolitic limestone, other crushed materials (as approved by the Engineer for friction courses per Rule 14-103.005, Florida Administrative Code), or a combination of the above. Crushed limestone from the Oolitic formation may be used if it contains a minimum of 12% silica material as determined by FM 5-510 and the Engineer grants approval of the source prior to its use. As an exception, mixes that contain a minimum of 60% crushed granite may either contain: up to 40% fine aggregate from other sources or a combination of up to 20% RAP and the remaining fine aggregate from other sources.

A list of aggregates approved for use in friction course may be available on the Department's website. The URL for obtaining this information, if available, is: <http://www.fdot.gov/materials/mac/production/frictioncourse.pdf>.

**337-3.2.2.2: Asphalt Binder:** Use an asphalt binder as called for in the Contract Documents meeting the requirements of Section 916.