

**LOUISIANA
DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
SPECIFICATIONS**

ASPHALTIC MIXTURES FOR COLD APPLICATION

DESCRIPTION:

This material consists of a mixture of aggregates and asphaltic materials. The mixture shall be one of the following types, as specified:

Type HP - High Performance Cold Mix. Type HP Mixtures shall be approved products listed on the Approved Materials List

GENERAL REQUIREMENTS:

The material shall:

- (a) Be workable at a minimum temperature of -26°C (-15°F) without being heated.
- (b) Adhere to both concrete and asphaltic surfaces which are damp or wet.
- (c) Be unaffected by salt or deicing compounds.
- (d) Be non-caustic, nontoxic, and nonflammable.
- (e) Be shipped in small containers [19 liter (5 gallon), 208 liter (55 gallon)], bags, or in bulk for stockpiling, as specified.
- (f) Remain usable in uncovered stockpiles for at least 12 months.
- (g) Be uniform and not require re-mixing prior to use.

PERFORMANCE TESTING:

The mixture of aggregates and asphaltic materials will be subjected to Water Susceptibility of Asphaltic Concrete Materials [DOTD TR 317, Step 5(e) thru 5(h)]. Mixtures which exhibit stripping of asphaltic material on more than 5 percent of the aggregate surface will be rejected.

MATERIALS:

Test methods shall be the latest in effect.

(a) Anti-Strip Additives:

Anti-strip additives shall be approved products listed on the Approved Materials List. One or more asphalt additives to prevent stripping of the asphalt from the aggregate in the presence of water and promote bonding to damp or wet surfaces shall be incorporated into the mixture. The additive(s) shall be incorporated into the emulsion at the point of origin or be metered in at the mix plant to provide a uniform concentration of the agent(s).

PREPARATION OF MIXTURE:

The approved aggregate shall be surface dried. When heat is applied, the mixed temperature shall not exceed 82°C (180°F). The asphalt blend shall be heated to a temperature of between 66°C (150°F) and 121°C (250°F). The mixture shall be mixed until all of the ingredients are uniformly coated.

PLANT AND EQUIPMENT:

Storage facilities and all equipment used in the preparation of the mixture shall be approved by the Department. The materials for individual batches shall be measured accurately either by volume or by weight, using approved methods and equipment.

A batch-type mixer, drum mixer, continuous mixer, or pug mill of approved design and capacity shall be used in mixing the ingredient materials. An approved dryer shall be available for surface drying the aggregate.

SAMPLING:

Acceptance will be based on visual inspection. The materials will be sampled only if the quality of the material is in doubt. A sample will consist of one (1) quart of material taken at random from the shipment.

MEASUREMENT AND PAYMENT:

Measurement and payment will be by the ton of 2000 pounds. If the asphaltic material does not conform to specifications, the mixture shall be replaced at no additional cost to the Department.