
Testing the Detrimental Effects of Asphalt Release Agents on Asphalt Mixtures

SC T 74

1. Scope

This test method covers the testing and acceptance of truck bed release agents and determines whether or not a release agent is detrimental to an asphalt mixture.

2. Referenced Documents

- 2.1 AASHTO Standards
 - M 231
 - T 73

3. Apparatus

- 3.1 500 ml glass beaker
- 3.2 Balance - conforming to the requirements of AASHTO M231, class G2.

4. Test Specimen

- 1.1 Diluted asphalt release agent.

5. Procedure

- 5.1 Obtain approximately 150 grams of 121°C-135°C(250°F-275°F) asphalt mixture meeting the requirements of a Surface Type C. Obtain approximately 200 ml of truck bed release agent diluted to its specified working concentration.
- 5.2 Pour the diluted release agent into the glass beaker. Carefully submerge the hot asphalt into the release agent. Make sure the asphalt is completely covered and allow the asphalt to remain in the agent for 2 hr \pm 10 min. Decant the release agent into an approved container. Pour the asphalt mixture onto a piece of paper and set aside. With a clean white paper towel, wipe the inside of the beaker making sure to completely remove all residue. Examine the paper towel. If an excessive amount of asphalt residue is noted, the release agent will be considered detrimental to asphalt mixtures.
- 5.3 Test a sample of the undiluted release agent with the Pensky-Martens Closed Cup Flash Point procedure (AASHTO T 73). The undiluted release agent must have a flash point greater than 60°C (140°F).

6. Calculations

None.

7. Report

None.