

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

SPECIAL PROVISION

Section 824 — Cationic Asphalt Emulsion

Delete Subsection 824.1.01.B and substitute the following:

B. Referenced Documents

AASHTO T 49
AASHTO T 51
AASHTO T 53
AASHTO T 59
AASHTO T 72
AASHTO T 301
AASHTO T 302-99
ASTM D 5546 – 01
QPL 65
GDT-135

Add the following:

824.2.02 Latex-Modified Cationic Asphalt Emulsion

A. Requirements

1. Latex Rubber Additive (LRA)
 - a. Ensure the LRA is a natural latex or an unvulcanized styrene-butadiene rubber in an emulsified latex form.
 - b. Ensure that the LRA comes from an approved source listed in the Department's current [QPL 65](#) for use in cationic asphalt emulsion.
2. Latex-Modified Cationic Asphalt Emulsion
 - a. Use PG58-22 as the base asphalt.
 - b. Add the LRA in the necessary proportions to result in a minimum of 3% polymer by weight of the asphalt residue.
 - c. Co-mill the LRA and asphalt cement while manufacturing the emulsified asphalt to produce a homogeneous mixture.
 - d. Ensure the latex-modified cationic asphalt emulsion, when undisturbed for 24 hours, shows no separation of emulsion and LRA and no color striations, but has a uniform color throughout.
 - e. Use a latex-modified cationic asphalt emulsion that meets the requirements in Table 2.