



# Florida Department of Transportation

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SECRETARY

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This Memo Has Expired

**MATERIALS BULLETIN NO. 11-12**

**DCE MEMORANDUM NO. 26-12**

*(FHWA Approved 12/4/12)*

**TO: DISTRICT MATERIALS RESEARCH ENGINEERS  
DISTRICT CONSTRUCTION ENGINEERS**

**FROM:** Timothy J. Ruelke, P.E., Director, Office of Materials  
David A. Sadler, P.E., Director, Office of Construction

**COPIES:** Bob Burleson, Jim Warren, Jim Musselman, Rafiq Darji (FHWA), Tom Byron,  
Chris Richter, Chad Thompson, Caitlin Alcorn

**SUBJECT: Modifications to Section 916 - BITUMINOUS MATERIALS**

Effective with lettings beginning January 1, 2013, Section 916 of the Department's Standard Specifications for Road and Bridge Construction is modified to replace Recycling Agents (RA) with Performance Graded (PG) asphalt binders. For projects let prior to January 1, 2013, if an RA is specified on a producer's already approved mix design, a change to a PG grade will be permitted meeting the conversion in the following table. Additionally, a PG 67-22 binder may be substituted for a PG 64-22 binder.

Specified binder prior to January 1, 2013 letting	Specified binder with January 1, 2013 letting
RA 550	PG 52-28
RA 750	PG 58-22
RA 1000	PG 58-22
RA 1500	PG 58-22
PG 64-22	PG 67-22

The following additional requirements apply:

1. The PG binder shall meet the PG binder requirements of Article 916-1.
2. The intermediate test temperature at 10 rad/s for the Dynamic Shear Rheometer (DSR) test, AASHTO T 315-10, shall be 26.5°C for PG grade PG 67-22. For PG grades lower than PG 67-22, the intermediate test temperature shall be as specified in AASHTO M 320-10 Table 1.
3. Do not substitute a PG binder with a continuous high temperature grade more than 5.9°C higher than the specified PG grade. For example, if a PG 52-28 is specified, do not supply a PG 58-22 or higher grade even though the higher PG grade technically meets the requirements of

the lower PG grade. This is to prevent excessively stiff binders from being used in mixtures with high RAP contents.

4. The mass change per AASHTO T 240 shall not exceed 1.00%.

5. The maximum viscosity per AASHTO T 202 is not required for PG binders.

This memorandum serves as a blanket approval to process a no-cost specification change for ongoing projects.

For any questions concerning this matter, please contact Greg Sholar, 352.955.2920, at the State Materials Office.

TR/DS/gs