



*Florida Department of Transportation*

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May 30, 2018

**MATERIALS BULLETIN NO. 09-18**  
**DCE MEMORANDUM NO. 14-18**  
*(FHWA Approved: 5/21/2018)*

**This Memo has expired**

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

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

**COPIES:** Amy Tootle, Courtney Drummond, Nick Finch, Rafiq Darji, Bob  
Burluson, Ananth Prasad, Jose Armenteros, Richard DeLorenzo

**SUBJECT: TITAN AMERICA CEMENT COMPANY PLANT (CMT23)**

Titan America Cement Company is producing a new cement identified as a Type IL. The cement may incorporate up to 15% limestone, however most producers will target 14% to allow for variation in materials. The blended cement will be designated as Type IL (14) indicating 14% limestone addition to be in compliance with AASHTO M240 or ASTM C595. The cement manufacturing process will produce about 12% less CO<sub>2</sub> compared to the Titan cement currently produced.

The Type IL cement has been tested by Titan and verified by the State Materials Office with no difference in performance when compared to the current Titan America, Type I/II cement. The clinker used to produce the currently produced Type I/II cement will continue to be used to produce the Type IL. No other changes to the cement will occur other than about 14% limestone will be added to the clinker at the finish mill. With the approval of the Type IL cement, the Department will accept the Type IL cement as a substitute in currently approved mix designs.

The following exceptions to this bulletin identified here, will require the standard mix design approval process in order to switch from Type I/II to Type IL cement;

1. Approved mix designs requiring Surface Resistivity Test values
2. Approved Self-Consolidating Concrete (SCC) mix designs
3. Approved Flowing Concrete mix designs

This memorandum does not waive any specification requirements but simply allows for the substitution of IL into currently approved mix designs.

Should you have any questions please contact Jose Armenteros, State Materials Office  
352-955-6666.

TR/ja