

ORIGINATION FORM

THE INFORMATION BELOW IS TO BE PROVIDED BY THE ORIGINATOR

Modify Specification 5230000SS.
Section/File number

New Section _____.
Section number

Subject: Patterned/Textured Pavement

Origination date: April 25, 2006

Originator: Jim Mills
Office/Phone: Roadway Design Office/850-414-4318
Email address/ jim.mills@dot.state.fl.us
Userid: RD960JM

Problem statement: The current specification includes minimum set to bear traffic time requirements, thermoplastic composition and binder content requirements, and flashpoint requirements that are not applicable and/or not necessary to meet the performance requirements for this type of product. The proposed revision eliminates these unnecessary requirements.

Recommended Usage Note: All projects with patterned/textured pavement.

Expected fiscal impact, if implemented: No increase in cost is expected. If anything, the changes will allow for additional product vendors, increasing competition with possible lower costs.

Implementation of these changes, if and when approved, will begin with the January 2007 letting.



Florida Department of Transportation

JEB BUSH
GOVERNOR

605 Suwannee Street
Tallahassee, FL 32399-0450

DENVER J. STUTLER, JR.
SECRETARY

MEMORANDUM

DATE: July 19, 2006

TO: Specification Review Distribution List

FROM: Duane F. Brautigam, P.E., State Specifications Engineer

SUBJECT: Proposed Specifications Change: **5230201 Patterned/Textured Pavement**

In accordance with Specification Development Procedures, we are sending you a copy of a proposed specification change to Patterned/Textured Pavement.

This change was proposed by Jim Mills of the State Roadway Design Office to change the current specification which includes minimum set to bear traffic time requirements, thermoplastic composition and binder content requirements and flash point requirements that are not applicable and/or not necessary to meet the performance requirements for this type product. This change will eliminate these unnecessary requirements.

Please share this proposal with others within your responsibility. Review comments are due within four weeks and should be sent to Mail Station 75 or to my attention via e-mail at SP965DB or duane.brautigam@dot.state.fl.us. Comments received after August 16, 2006 may not be considered. Your input is encouraged.

DFB/bd

Attachment

COMMENTS:

Submitted by:

Phone #:

PATTERNED/TEXTURED PAVEMENT.

(REV 5-11-067-18-06)

ARTICLE 523-1 (Page 591) is deleted and the following substituted:

523-1 Description.

Apply a patterned and/or textured treatment to asphalt or concrete, in accordance with manufacturer's recommendations. Applications include the following:

1. Imprinting patterns into existing or new pavement and covering with a ~~surface~~ *colored* coating(s) of paint or thermoplastic ~~of traffic~~ *surface marking material(s)*.
2. Imprinting patterns into existing or new pavement and inlaying the imprint with preformed thermoplastic material.
3. Colored, preprinted, preformed texturized thermoplastic material that is applied over existing pavement.
4. Colored thermoplastic *coating* material that can be imprinted and texturized during or after application to existing pavement.

For applications requiring removal and replacement of existing pavement, meet the requirements of Section 350 for cement concrete pavement; the requirements of Section 334 for Superpave asphalt or Section 337 for FC 9.5 and FC 12.5 asphalt.

For the purpose of this Specification, patterns are defined as visible surface markings; imprinted textures are defined as palpable surface markings.

Use the location, pattern/texture type (brick, stone, etc.), and coating color as specified in the plans. Joint openings shall not exceed 1/2 inch in width.

ARTICLE 523-2 (Pages 591 and 592) is deleted and the following substituted:

523-2 Materials.

523-2.1 Qualified Products List: Use only patterned/textured pavement products listed on the Qualified Products List. Meet manufacturer's specifications for all pattern/texture templates, coating and coloring materials. Use only material that is delivered to the job site in sealed containers bearing the manufacturer's original labels.

Material coatings used to achieve the pattern/texture and/or color shall produce an adherent, weather resistant, skid resistant surface capable of resisting deformation to traffic.

~~Paint and thermoplastic materials coatings Traffic~~ *Surface marking materials* must meet the requirements of this Specification and Section 971 *with the following exceptions:*, ~~except that the requirements for Color and Retroreflectivity do not apply.:~~

1. ~~Section 971 eColor and reflectivity requirements of 971-1.7,~~ *do not apply.*
2. ~~Retroreflectivity requirements do not apply.~~
22. ~~Section 971 fRequirements of 971-3.3.1 for minimum set to bear traffic time, do not apply. Do not open to traffic until the coating material has sufficiently dried or cured and is ready to withstand traffic.~~
33. ~~For thermoplastic materials, Section 971 the requirements in 971 for use of alkyd based materials only in 971-5.1 and minimum binder content of 971-5.2,~~ *does not apply.*

4. For thermoplastic materials, the minimum binder content in the Composition table in 971, does not apply.

5. For thermoplastic materials, ~~Section 971 requirements for minimum the minimum flashpoint requirements of 971-5.5, do not apply- the flashpoint shall will be identified in the manufacturer's specification and shall will be a minimum 10° F higher than the maximum temperature required for proper field installation.~~

Manufacturers seeking approval for inclusion on the QPL must submit application and certifications in accordance with Section 6 along with the following documentation:

1. Manufacturer's specifications and procedures for materials and installation.

2. Manufacturer's certification with supporting test data and results that the patterned/textured pavement installed in accordance with the manufacturer's specifications and procedures has been tested in accordance with the ASTM E-274, Skid Resistance of Paved Surfaces using a standard ribbed full Scale Tire at a speed of 40 mph (FN40R), and has a minimum FN40R value of 35.