



# Florida Department of Transportation

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GOVERNOR

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DENVER J. STUTLER, JR.  
SECRETARY

September 7, 2006

Mr. Greg Williams  
Program Operations Engineer  
Federal Highway Administration  
545 John Knox Road, Suite 200  
Tallahassee, Florida 32303

Re: Office of Design, Specifications  
Section 523  
Proposed Specification: Patterned/Textured Pavement

Dear Mr. Williams:

We are submitting, for your approval, two copies of a proposed Supplemental Specification for patterned/textured pavement.

This change was proposed by Jim Mills of the Roadway Design Office to eliminate 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.

We are asking for an accommodation in the review time for this revision. We are at the point in our process, when our workbook must be released to the Districts and this revision is a necessary part of that release. Please review and transmit your comments, if any, as soon as possible. Comments should be sent via Email to SP965DB or [duane.brautigam@dot.state.fl.us](mailto:duane.brautigam@dot.state.fl.us).

If you have any questions relating to this specification change, please call Duane F. Brautigam, State Specifications Engineer at 414-4110.

Sincerely,

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

DFB/  
Attachment

cc: General Counsel  
Florida Transportation Builders' Assoc.  
State Construction Engineer

***PATTERNED/TEXTURED PAVEMENT.***

***(REV 5-11-065-30-06)***

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 971-1.7, do not apply.~~ *Surfaces shall not be made retroreflective.*
2. ~~Retroreflectivity requirements do not apply.~~
22. ~~Section 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 for alkyl based materials only in 971-5.1 and minimum binder content of 971-5.2, do not apply.~~

*4. For thermoplastic materials, Section 971 requirements for minimum the indentation resistance requirements and 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<sup>o</sup>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.

**PATTERNED/TEXTURED PAVEMENT.**  
**(REV5-30-06)**

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 colored coating of surface marking materials.
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. Surface marking materials must meet the requirements of this Specification and Section 971 with the following exceptions:

1. Color and reflectivity requirements do not apply. Surfaces shall not be made retroreflective.
2. Requirements 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.
3. For thermoplastic materials, the requirements for alkyd based materials only in 971-5.1 and minimum binder content of 971-5.2, do not apply.

4. For thermoplastic materials, the indentation resistance requirements and minimum flashpoint requirements of 971-5.5, do not apply

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.