

# ORINATION FORM

## Proposed Revisions to the Specifications

(Please provide all information - incomplete forms will be returned)

Date:

Office:

Originator:

Specification Section:

Telephone:

Article/Subarticle:

email:

**\*\*Will the proposed revision require changes to:**

Publication	Yes	No	Office Staff Contacted and date contacted
Standard Plans Index			
Traffic Engineering Manual			
FDOT Design Manual			
Construction Project Administration Manual			
Basis of Estimate/Pay Items			
Structures Design Guidelines			
Approved Product List			
Materials Manual			

**\*\*This section must be completed prior to processing proposed revisions.**

**Will this revision necessitate any of the following:**

**Design Bulletin**

**Construction Bulletin**

**Estimates Bulletin**

**Materials Bulletin**

**Are all references to external publications current?**

**Yes**

**No**

**If not, what references need to be updated? (Please include changes in the redline document.)**

**Why does the existing language need to be changed?**

**Summary of the changes:**

**Are these changes applicable to all Department jobs?**

**Yes**

**No**

**If not, what are the restrictions?**

Contact the State Specifications Office for assistance in completing this form.

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**RON DESANTIS**  
**GOVERNOR**

**KEVIN J. THIBAUT, P.E**  
**SECRETARY**

## **MEMORANDUM**

**DATE:** October 22, 2020  
**TO:** Specification Review Distribution List  
**FROM:** Daniel Strickland, P.E., State Specifications Engineer  
**SUBJECT:** Proposed Specification: **9710202 Pavement Marking Materials.**

In accordance with Specification Development Procedures, we are sending you a copy of a proposed specification change.

This change was proposed by Kenneth Bergum from the State Materials Office to update the AASHTO and ASTM 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 online at <http://fdotewp1.dot.state.fl.us/programmanagement/development/industryreview.aspx> . Comments received after **November 19, 2020**, may not be considered. Your input is encouraged.

DS/rf

Attachment

**PAVEMENT MARKING MATERIALS****(REV 10-5-20)**

SUBARTICLE 971-2.2 is deleted and the following substituted:

**971-2.2 Specific Properties:** The large (Type 3 or larger) glass spheres used for drop on beads shall have an adhesion coating. Type 1 glass spheres used for drop on beads shall have a dual coating. Beads used in the intermix of materials are not required to be coated.

The following physical requirements apply:

Property	Test Method	Specification
Roundness*	AASHTO <a href="#">PP-R 7498</a>	Min: 70 % by weight
Roundness**	AASHTO <a href="#">PP-R 7498</a>	Min: 80% by weight
Refractive Index*	Becke Line Method (25+/-5C)	1.5 minimum
Refractive Index**	Becke Line Method (25+/-5C)	1.9 minimum

\*Type 1, 3, 4 and 5 beads  
\*\*High Index beads

Sieve Size	Percent by Mass Passing Designated Sieve (AASHTO <a href="#">PP-R 7498</a> )				
	Grading Designation				
	Type 1 (AASHTO)	Type 3 (FP 96)	Type 4 (FP 96)	Type 5 (FP 96)	High Index
No. 8				100	
No. 10			100	95 - 100	
No. 12		100	95 - 100	80 - 95	
No. 14		95 - 100	80 - 95	10 - 40	
No. 16	100	80 - 95	10 - 40	0 - 5	100
No. 18		10 - 40	0 - 5	0 - 2	
No. 20	95 - 100	0 - 5	0 - 2		95 - 100
No. 25		0 - 2			
No. 30	75 - 95				55 - 85
No. 40					15 - 45
No. 50	15 - 35				0 - 5
No. 80					
No. 100	0 - 5				

SUBARTICLE 971-3.3 is deleted and the following substituted:

**971-3.3 Physical Requirements:** Test laboratory samples in accordance with ASTM E811 and E1349 and also meet the following criteria:

Table 971-6			
Property	Test Method	Minimum	Maximum
Density	ASTM D1475	13.5 ± 1.4 lb/gal	-
Viscosity at 77°F	ASTM D562	80 KU	100 KU
Fineness of Grind	ASTM D1210	3(HS)	
Dry Opacity at 5 mils WFT	ASTM D2805	0.92	-
Bleed Ratio	ASTM <del>D969</del> D868	0.95	-
Flexibility	ASTM D522 Method B	Pass	-
Abrasion Resistance	ASTM D4060	Pass	-

SUBARTICLE 971-4.3 is deleted and the following substituted:

**971-4.3 Physical Requirements:** Test laboratory samples in accordance with ASTM E811 and E1349. Samples shall meet the following criteria:

Table 971-8			
Property	Test Method	Minimum	Maximum
Density	ASTM D1475	13.5 ± 1.4 lb/gal	N/A
Viscosity at 77°F	ASTM D562	80 KU	100 KU
Fineness of Grind	ASTM D1210	3(HS)	
Dry Opacity at 5 mils WFT	ASTM D2805	0.92	-
Bleed Ratio	ASTM <del>D969</del> D868	0.95	-
Flexibility	ASTM D522 Method B	Pass	-
Abrasion Resistance	ASTM D4060	Pass	-