



Florida Department of Transportation

CHARLIE CRIST
GOVERNOR

605 Suwannee Street
Tallahassee, FL 32399-0450

STEPHANIE KOPELOUSOS
INTERIM SECRETARY

January 25, 2007

Mrs. Leslie McCarthy, PhD, P.E.
Program Operations Engineer
Federal Highway Administration
545 John Knox Road, Suite 200
Tallahassee, Florida 32303

Re: Office of Design, Specifications
Section 971
Proposed Specification: 9710906-Traffic Marking Materials

Dear Mrs. McCarthy:

We are submitting, for your approval, two copies of a proposed Supplemental Specification for Traffic Marking Materials.

This change was proposed by Chester Henson of the Roadway Design Office to delete reference to Section 710 for set to bear traffic time; to change the lower limit of initial retroreflectance of white and yellow pavement markings from 350 to 450 $\text{mcd}\cdot\text{lx}\cdot\text{m}^2$ and changed the one year service life for retroreflectance to three years at not less than 150 $\text{mcd}/\text{lx}\cdot\text{m}^2$.

Please review and transmit your comments, if any, within two weeks. Comments should be sent via Email to SP965DB or 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/sh

Attachment

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

TRAFFIC MARKING MATERIALS.**(REV 1-25-07)**

SUBARTICLE 971-9.6 (Pages 874 and 875) is deleted and the following substituted:

971-9.6 Physical Requirements: The material shall meet the following criteria:

| Property | Test Method | Minimum | Maximum |
|---------------------|-----------------------------|---------|---------|
| Dry Opacity * | Fed Std 141a Method 4121 | 0.96 | - |
| Bleed Ratio | Fed Spec TT-P-85D | 0.95 | - |
| Flexibility | Fed Spec TT-P-115D | Pass | - |
| Abrasion Resistance | 971-12.6.3 | Pass | - |

*When applied at manufacturer's recommended dry film thickness.

971-9.6.1 Set To Bear Traffic Time: When applied at the temperatures and thickness specified by Section 710, the material shall set to bear traffic in not more than two minutes.

971-9.6.2 Abrasion Resistance: Test four samples per LOT using a Taber Abrader. The paint shall be applied to specimen plates using a drawdown blade having a clearance of 26 mils. Air dry each sample for 30 minutes and bake at 220°F for 18 hours. Clean with a soft brush and weigh each sample. Abrade samples for 1,000 cycles with 1.1 lb weights and CS-10 wheels. Clean the samples with a soft brush and weigh again. The average weight loss for the four plates shall not exceed 0.178 ounce per plate.

971-9.6.3 Retroreflectivity: The white and yellow pavement markings shall attain an initial retroreflectance of not less than ~~450~~300 mcd/lx·m² and not less than 350 mcd/lx·m², respectively. The retroreflectance of the white and yellow pavement markings at the end of the ~~three~~one year service life shall not be less than 150 mcd/lx·m².

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