

Here is the version of 938 containing changes as requested by FHWA and SMO. I do not feel the changes accepted from SMO will require resubmittal to FHWA. The changes are minimal.

Response to FHWA comments:

1. In Sections 938-7.1 and 938-7.2, we suggest the second sentence in each begin with; "All physical requirements defined in 938-4, 938-5 and 938-6 are applicable for" The verbiage otherwise could suggest that the requirements in 938-1, 938-2 and 938-3 are not applicable.

RESPONSE: accepted

2. In Section 938-7.3, in the fourth from last line, we believe the intended ASTM reference to be "ASTM C 1202", and not ASTM C 1.202.

RESPONSE: accepted

Response to Charles Ishee's comments:

1. Specification 938-1

Comment: REMOVE the second sentence

Reason: Move this second sentence into a new second subsection.

RESPONSE: not accepted, prefer to leave generic requirements up front and add specific additions at the end as currently written.

2. Specification 938-1

Comment: REPLACE "plastic pails or plastic lined or coated bags." with "a moisture resistant container"

Reason: Why should we try to specify the only types of containers when the manufacturers might have other containers that meet the intended purpose?

RESPONSE: changed to moisture proof containers

3. Specification 938-2 (new)

Comment: ADD in information from Section 938-7 to include the second sentence from 938-1. The rest of the specification will need to be renumbered accordingly

Reason: The different types of applications need to be stated at the beginning.

RESPONSE: not accepted, prefer to leave generic requirements up front and add specific additions at the end as currently written.

4. Specification 938-2

Comment: ADD the work "the" in front of Cement Concrete Reference Laboratory (CCRL).

Reason: That is their official title.

RESPONSE: accepted

5. Specification 938-3

Comment: REMOVE "using high speed mixers (1,400 to 1,800 rpm)"

Reason: The speed of the mixing should be at the manufactures recommendation with will be controlled by the mixer in the field.

RESPONSE: accepted

6. Specification 938-4.2 (Fine Aggregate)

Comment: Separate this table for each of the applications

Reason: Why have the information in Section 938-7 when it can be in the table?

RESPONSE: no need to repeat all the information more than once.

7. Specification 938-4.2 (Wet Density)

Comment: DELETE Field & Laboratory rows in table

Reason: There is no acceptance requirement, so why have them report it?

RESPONSE: These are "finger print" values. All other test results must pass and these values are established. In the field the wet density test may be used in lieu of the fluidity test and the results compared to these recorded test. If the numbers match, then it is assumed the other corresponding test results are acceptable.

8. Specification 938-4.2 (Schupack Test)

Comment: ADD this test to the table for the vertical grouts

Reason: Why have the information in Section 938-7 when it can be in the table?

RESPONSE: not accepted, prefer to leave generic requirements up front and add specific additions at the end as currently written.

9. Specification 938-5 (b)

Comment: ADD the word nominal in front of inside diameter

Reason: There give more specific information on what equipment to run the test under.

RESPONSE: accepted

10. Specification 938-7

Comment: DELETE this section

Reason: Should be at the front so the reader knows what he is to perform when he is reading the specification.

RESPONSE: not accepted, prefer to leave generic requirements up front and add specific additions at the end as currently written.

Response to Mark Eicholtz:

Comment 1: In 938-42., what is the purpose of the Density Tests if no test values are given?

Response: These are "finger print" values. All other test results must pass and these values are established. In the field the wet density test may be used in lieu of the fluidity test and the results compared to these recorded test. If the numbers match, then it is assumed the other corresponding test results are acceptable.

Comment 2: applies to B460 (462) and will be evaluated with other comments on that spec.

Robert Robertson

FDOT Tallahassee Structures

SC 994-4267

(850) 414-4267