

3501600 - CEMENT CONCRETE PAVEMENT
COMMENTS FROM INDUSTRY REVIEW

Ken Morgan
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Comments:

The wording should say " compressive " strength or 2200 psi not " flexural" strength of 2200 psi.

John Previte
FDOT-D1 Specifications Engineer
Ph: (863) 519-2676

Comments:

To me, (maybe JUST me?) what to do about days below 50 degrees is now even less clear than the previous (strike-out)

Perhaps try:

Except as provided below, keep the pavement closed to traffic for a minimum period of 14 calendar days after placement of the concrete plus an additional day of closure for each day during which the surface temperature of the concrete falls below 50°F.

Bob Graham
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Comments:

The phrase "flectural strength" should read "compressive strength". Can we use the same strength for opening bridge decks and approach slabs?

Bruce Dietrich
State Pavement Design Engineer
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Comments:

"flexural" strength should be changed to "compressive" strength.

Joshua Carter, P.E.
GBF Engineering, Inc.
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Comments:

If cylinders are to be tested rather than beams, shouldn't it read a "compressive strength of at least 2200 psi" rather than a flexural strength.

Bill Sears
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Comments:

Replace flexural strength with compressive strength in the second paragraph.

Tom Bowles
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Comments:

I do not know the content of the ASTM Test procedure indicated, but the flexural strength of 2200 psi seems impossible. Is it the intent of the change to allow compressive criteria to control Opening to Traffic? If so, I am all for it!

Eduardo (Ed) Ponce
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Comments:

Red strikethrough the word "flexural" and replace with the word "compressive."
"The Engineer may permit opening of a section of pavement to traffic at an earlier time provided that representative test beams cylinders, made in accordance with ASTM C 31 and tested in accordance with ASTM C 7839, indicate a flexural COMPRESSIVE strength of at least 550 2200 psi."

Bob Dion
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Comments:

Is it your intent that the pavement not be opened to traffic unless a concrete structural strength of 2200 psi is obtained and the surface temperature of the concrete is above 50°F? This seems to be saying that traffic can't be maintained on the concrete pavement any time its surface temperature is below 50°F.

Suggest you begin the 2nd paragraph with 'Keep the pavement closed to traffic for a minimum of 14 calendar days after placement of the concrete.

As an exception, the Engineer may permit the opening of a section of pavement to traffic at an earlier time provided that....,indicates a flexural strength of at least 2200 psi and the surface temperature of the concrete is above 50°F. Cure the test cylinders in a manner identical to the corresponding section of pavement.

Christopher Wood
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Comments:

The term flexural strength should be changed to compressive strength. Due to the fact that the ASTM mentioned test for compressive strength.

Greg Vickery
District Communications Coordinator
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Comments:

In the sentence "The Engineer may permit opening of a section of pavement to traffic at an earlier time provided that representative test beams *cylinders*, made in accordance with ASTM C 31 and tested in accordance with ASTM C 7839, indicate a flexural strength of at least 550 2200 psi the word," the word "flexural" should be changed to "compressive." This is a very good change to get rid of beam testing.

Chupka, Frank/Bernie A Masing
District 1

Comments:

I think the first sentence of the second paragraph of 350-16 was actually clearer before they changed it. My recommendation is "Except as provided [within this paragraph](#) below, keep the

pavement closed to traffic for a minimum period (~~exclusive of days when surface temperature of the concrete falls below 50 degrees F~~) of 14 calendar days after placement of the concrete, ~~excluding any days when the surface temperature of the concrete falls below 50 degrees F.~~"

Thank you for the opportunity to comment.
Frank

Jeff Moore, PCL Civil Constructors Inc
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Comments:

In the second paragraph, the second sentence should read "and tested in accordance with ASTM C39, indicate a compressive strength of at least 2200 psi"

Conrad Campbell P.E.,
FDOT Districts 1&7 Materials (MS 1-9)
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Comments:

Second Paragraph second sentence reads: The Engineer may permit opening of a section of pavement to traffic at an earlier time provided that representative test cylinders, made in accordance with ASTM C 31 and tested in accordance with ASTM C 39, indicate a flexural strength of at least 2200psi. It should read:

The Engineer may permit opening of a section of pavement to traffic at an earlier time provided that representative test cylinders, made in accordance with ASTM C 31 and tested in accordance with ASTM C 39, indicate a Compressive Strength of at least 2200psi.

If you have any questions or need any clarification please contact Brian Price (x4245) or Sean Masters (x4264).