

3500200 Cement Concrete Pavement
COMMENTS FROM INTERNAL/INDUSTRY REVIEW



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Comments: (Industry 11-16-21)
Should we add the APL requirement with our normal asterisks and note?

350-2 Materials.

Meet the following requirements except as modified herein:

- Concrete..... Section 346
- Grinding Concrete Pavement..... Section 352
- Curing Materials..... Section 925
- Curing Compound*..... Section 925
- Embedded Items..... Section 931
- Joint Seal..... Section 932
- *Use APL product....

350-12.2 White-Pigmented Curing Compound: Uniformly apply a Type 2 white-pigmented curing compound meeting the requirements of Section 925 to the surfaces to be cured, including the edges of slip-form produced paving, in a single coat of continuous film, at the minimum rate of 1 gallon per 200 square feet.

Section 925 requests “Type” with manufacturer’s product label, but doesn’t define a Type 2 white-pigmented curing compound or separate products from Type 1 . While this may be understood by industry, the specification needs to define/separate Types and similar to other sections state “Products will be listed according to type, as defined in _____.

925-2 Membrane-Forming Curing Compound.

925-2.1 General: Membrane-forming curing compound shall conform to requirements of ASTM C309 and the following requirements:

Response: This is not part of the proposed change and should be submitted independently.

Nevertheless:

- The first part of the comment proposes an editorial change, and the Specification Office may include it in this revision (see below modified Subarticle).
- The second part of the comment requires industry input and should not be part of this revision cycle.

ARTICLE 350-2 is deleted and the following substituted:

350-2 Materials.

Meet the following requirements except as modified herein:

- ConcreteSection 346
- Grinding Concrete Pavement.....Section 352
- Curing Materials*Section 925
- Embedded Items.....Section 931

Joint Seal.....Section 932

*Use products listed on the Department’s Approved Product List (APL).

Submit a mix design to the Engineer for approval prior to use. Provide concrete with a minimum 28 day compressive strength of 3,000 psi and maximum water to cementitious materials ratio of 0.50. The requirements of Sections 346-3 and 346-4 do not apply. Notify the Engineer if any of the component quantities are adjusted. If any material sources change, resubmit the mix design to the Engineer for approval prior to use.

For concrete pavement placed using the slip-form method of construction, utilize concrete with a target slump of 1.5 inches plus or minus 1 inch. For concrete pavement placed by hand in constructed forms, utilize concrete with a target slump of 3 inches plus or minus 1.5 inches.

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Comments: (Industry 11-1-21)

The proposed change adds "The air content for concrete pavement mixes will not apply." This does not address plastic properties testing, and since we must follow the requirements of 346 for items not specified in Section 350, the requirement is that we test the air content even though there is no limit.

If the intent is to omit the air test we should address that in Section 350.

Response: Agree.

Action: Sentence was expanded for clarification as follows:

The Air content testing for concrete pavement mixes will not apply is not required.

CEMENT CONCRETE PAVEMENT.

(REV 9-23-21)

ARTICLE 350-2 is deleted and the following substituted:

350-2 Materials.

Meet the following requirements except as modified herein:

- ConcreteSection 346
- Grinding Concrete Pavement.....Section 352
- Curing MaterialsSection 925
- Embedded Items.....Section 931
- Joint Seal.....Section 932

~~Submit a mix design to the Engineer for approval prior to use.~~ Provide concrete with a minimum 28-day compressive strength of 3,000 psi and maximum water to cementitious materials ratio of 0.50. ~~The requirements of Sections 346-3 and 346-4 do not apply. Notify the~~

~~Engineer if any of the component quantities are adjusted. If any material sources change, resubmit the mix design to the Engineer for approval prior to use.~~

For concrete pavement placed using the slip-form method of construction, utilize concrete with a target slump of 1.5 inches plus or minus 1 inch. For concrete pavement placed by hand in constructed forms, utilize concrete with a target slump of 3 inches plus or minus 1.5 inches. ~~The Air content testing for concrete pavement mixes will not apply~~ is not required.