

Response To Comments Received

Bob Dion

File: 4130000 - Sealing Cracks and Concrete Surfaces
Username: Bob Dion
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UserTel: 386-740-0665
UserFAX: 386 740-1275
Remote Name: 68.16.163.85
Date: Wednesday, May 04, 2005
Time: 11:21:57 AM

Comments:

Can the 2 paragraphs in 413-1 be combined into 1, using the active voice-imperitive mode as the rest of the specification? Suggest something similar to:

"Perform surface preparation and application of surface penetrant sealers and high molecularweight methacrylates to all areas shown in the plans in accordance with the manufacturers recommendations and these Specifications.

Response:

Agree with the recommendation. Paragraphs have been combined in the active voice.

Ghulam Mutjaba

Proposed Specification
revision of 4130000 - Sealing
Cracks and Concrete Surfaces.

Comment:

Subarticle 413-3.2.3 of the proposed specification requires that "Certify that the sand has a maximum moisture content of 0.25%.". This may be interpreted as requirement that the sand should have a moisture of 0.25%.

Change the sentence to read: "Certify that the sand moisture content has remained at or below 0.25 %."

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Response:

Agree with recommendation. Wording has been added "...not to exceed 25%..."

Jack Knowlton

File: 4130000 - Sealing Cracks and Concrete Surfaces
Username: Jack Knowlton
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Remote Name: 69.22.64.237
Date: Wednesday, May 04, 2005
Time: 09:44:13 AM

Comments:

The specifications repeatedly state to follow these specifications and the manufacturer's recommendations. What if there is a conflict between the specifications and the manufacturer's recommendations. (ex. spces state that penetrant sealer to be applied by 20 psi sprayer. Manufacturer allows spreading by roller and/or brush)

Response:

Agree with recommendation. Sentence has been added in Section 413-1 to consult with the State Materials Office in the event of conflict.

John Hess

Username: Mr. John C. Hess
UserEmail: ia906jh
Remote Name: 156.75.196.3
Date: Wednesday, May 18, 2005
Time: 04:29:15 PM

Comments:

These are my comments after reviewing this Specification:

1. 413-3: The heading used for 413-2 was "Penetrant Sealers.", it appears for consistency of section identification it would be better if the heading was "Crack Sealer". This would allow for the second type of sealer to be identified by the same method.

Response:

1. Penetrant sealers are primarily surface sealers. The methacrylates on the other hand, even though applied on the surface, are crack sealers only. Therefore, identifying both as crack sealers only would be incorrect.

2. 413-3.2.2 Shelf Life: The monomer shall have a shelf life of no less than 12 months and shall be no more than 8 months old at the time of application.

This sentence does not appear clear as stated. The product shelf life of no less than 12 months states that it must be 12 months old. However, we want the product to be no more than 8 months old at the time of application. This appears to be a contradiction.

Response:

2. Shelf life is defined by the industry as the maximum storage period allowed between manufacture and use in which the product will maintain all it's properties. The intent is to have a product that has a minimum shelf live (storage life) of 12 months. By specifying that it can not be more than 8 months at time of delivery, will allow at least 4 months for application in the project before it is unusable (end of shelf life).

Melissa Hollis

File: 4130000 - Sealing Cracks and Concrete Surfaces

Username: Melissa Hollis

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UserTel: 414-4182

Remote Name: 156.75.176.26

Date: Tuesday, May 31, 2005

Time: 07:33:36 AM

Comments:

Please work with the Estimates Office to change the pay item to a 413 item.

Response:

Agree. Estimates Office has provided new pay item numbers (old pay items replaced).

Yougens Pierre

File: 4130000 - Sealing Cracks and Concrete Surfaces

Username: Yougens Pierre, P.E.

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Remote Name: 156.75.75.142

Date: Thursday, May 12, 2005

Time: 10:02:15 AM

Comments:

Comment 1: "413-2.3 Application of Penetrant Sealer Materials: ... Apply penetrant sealer no later than ten days after completion of the surface preparation and prior to any contamination of the prepared surfaces."

I would suggest a distinction be made for coastal and inland areas. the time may need to be shortened for coastal environments, specially on bridges and structures exposed to salt sprays.

Response:

1. *Because the penetrant sealers are only used to block contaminants that can diffuse through the concrete porosity or very small cracks, it is not expected that any contamination within 10 days would be significant. However, wording has been added (Section 413-2.3) to allow the Engineer to direct an earlier application if the level of contamination requires such.*

Comment 2: "413-3.4.6 Sand Distribution: Apply sand over the monomer treated area within a timely period following the application of the polymer..."

This is somewhat vague and open to different interpretation.

Response:

2. *We concur that the statement is not specific. However, because of the possible difference in manufacturer recommendations, it is desirable to allow the Contractor in conjunction with the manufacturer representative (Section 413-3.1) to make this decision and be responsible for the results. Wording has been added to clarify that distribution of sand should be performed as per manufacturer recommendations for existing conditions.*

Ray Williamson

The above mentioned specification has been reviewed and the following comments are offered.

- 1) General comment throughout - HMWM stands for High Molecular Weight Methacrylate. Remove the prefix "Methyl..."

Response: Agree. Changed to "methacrylate"

- 2) Section 413-3, Table 2 - Viscosity range to be 15 - 25 cps at 50 rpm

Response: We have not evaluated any monomer with a viscosity above 20 cps.

- 3) Section 413-3.2.2 - Monomer shall have a shelf life no less than 6 months and shall be no more that 4 months old at time of application.

Response: A shelf life of 6 month with 4 month old at time for delivery to the project will only allow 2 month for application. This will be impractical in many of our projects. We have used monomers with 12 month shelf life and these are satisfactory.

4) Section 413-3.2.3 - Use uniformly graded 8-20, clean, bagged, oven-dried broadcast sand ...

or

Use uniformly graded 6-20 (or similar), clean, bagged, oven-dried broadcast sand ...

Response: Added “(or similar)”

5) Section 413-3.4.2 - in all instances, mix the initiator (CHP) at the HMWM manufacturer's specified volume with 50% of the monomer resin and the cumene promoter at the HMWM manufacturer's specified volume with the other 50%.

Response: Agree with recommendation. Wording added to indicate “manufacturer’s specified volume”

Thank you for the opportunity to participate in your process.

Very truly yours,
Sika Corporation

Ray Williamson
Product Marketing Manager / Reactive Resins

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