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Qualified Products List Prequalification Criteria : Concrete Curing Compounds, Liquid Membrane Forming, December 20, 2011

Maine Department of Transportation

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Maine Department of Transportation Qualified Products List Prequalification Criteria

Concrete Curing Compounds Liquid Membrane Forming

As referenced in Maine Standard Specifications Sections: 502 – Structural Concrete, 526 - Concrete Barrier, 535 - Precast, Prestressed Concrete Superstructure, 608 - Sidewalks, and 712 - Miscellaneous Highway Material

Product Requirements:

TABLE 1

- Type 1-D, clear or translucent with fugitive dye which must be readily distinguishable for at least 4 hours after application but shall be inconspicuous in 7 days.
- Type 2, white pigmented, ready-mixed and ready for use.
- Type 2 compounds shall exhibit a daylight reflectance of not less than 60%.
- Type 2 compounds must not settle out excessively or cake in the container during storage.
- Type 2 compounds must be capable of being mixed to a uniform consistency with moderate stirring or agitation.
- Must not contain sodium-silicate.
- Must be of a consistency capable of application by means of pressure spraying, brushing, or rolling at temperatures above 40°F.
- Minimum application rate of 5.0 m²/L (200 ft²/gal).
- Must be capable of being stored (above freezing) for at least six (6) months without deterioration.
- Volatile portion shall neither be toxic nor have a flash point less than 50°F.
- Volatile Organic Compounds (VOC) not to exceed 350 g/L.
- Must restrict the loss of water to not more than 0.55 kg/m² in a 72 hour period.
- Compounds shall dry to the touch in not more than four (4) hours.

All curing compounds must conform to the requirements of ASTM C 309, Type 1-D (clear or translucent with fugitive dye), or Type 2 (white pigmented) and MaineDOT's current Standard Specifications.

Effective July 1, 2006, only products whose test results have been published by the National Transportation Product Evaluation Program (NTPEP) will be considered for inclusion on MaineDOT's Qualified Products List (QPL). Concrete Curing Compound (CCC) manufacturers are urged to submit their products to the NTPEP for evaluation. Privately labeled products must be submitted as a separate product for testing.

Further, all curing compounds presently listed on the QPL must be tested through the NTPEP program by January 1, 2008. Any product that has not been tested by that date will be removed from the QPL. The NTPEP will accept product applications for CCCs twice yearly. Schedules, application forms, and fees are available online for product evaluation submissions during the next testing cycle. Please visit the NTPEP's website for more information www.ntpep.org

The Department will review submitted information to assure conformance with the material requirements as shown in Table 1. Following a review of submitted information,

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the Department reserves the right to request a sample of the product for conformance testing in the Department's laboratory or for a trial use in the field.

Required Submissions

1. Completed Preliminary Information for Product Evaluation Form
2. Applicable MSDS information
3. Any other pertinent literature such as technical data sheets and letters of acceptance from other Agencies.

Curing compounds that have not been tested under the NTPEP program will be rejected.

Re-submittals and Re-testing

Products must be re-submitted for testing to the NTPEP once every three (3) years. Failure to re-submit products by the end of the third year may result in removal from the QPL.

The Department continues to evaluate its prequalification criteria and reserves the right to revise the criteria and/or withdraw product prequalification at any time for any reason without notice.

Please contact the Department's Product Evaluation Coordinator at 207-624-3268 with any questions.