

Maine Department of Transportation Qualified Products List Pre-qualification Criteria

Concrete Curing Compounds Liquid Membrane Forming

As referenced in Maine Standard Specifications 2014, Sections: 502 – Structural Concrete, 526 - Concrete Barrier, 535 - Precast, Prestressed Concrete Superstructure, 608 - Sidewalks, and 712 - Miscellaneous Highway Material, ASTM C309 - 11

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 seven (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 and must be capable of being mixed to a uniform consistency with moderate stirring or agitation.
- Must not contain solutions of sodium-silicate.
- Must be of a consistency capable of application by means of pressure spraying, brushing, or rolling at temperatures above 40°F.
- Unless specified otherwise by manufacturer, minimum application rate of 200 ft²/gal.
- Must be capable of being stored (above freezing) for at least six (6) months without deterioration.
- 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 72 hours.
- Compounds shall dry to the touch in not more than 4 hours.
- Settling of Type 2 curing compound (MNDOT) shall not exceed 2 ml after 3 days.

Curing compounds must be tested through the NTPEP program. The NTPEP program will accept product applications for Concrete Curing Compounds (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.

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.

So called, cure & seal products that leave a permanent film will not be considered.

Required Submissions

1. Completed Preliminary Information for Product Evaluation Form
2. Applicable Safety Data Sheet (SDS) 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 not be accepted.

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Liquid Membrane Forming**

Re-submittals and Re-testing

Products shall be submitted for re-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.