

MaineDOT Qualified Products Acceptance Criteria

Concrete Curing Compounds

Overview

Products on the Concrete Curing Compounds list are required to be tested through AASTHO Product Evaluation & Audit Solutions (formerly NTPEP). In addition, these products must remain current with AASTHO Product Evaluation & Audit Solutions (formerly NTPEP) policy regarding periodic retesting as required by the program. Please include the AASTHO Product Evaluation & Audit Solutions (formerly NTPEP) ID# and VOC test results with submittal.

All products shall conform with Maine Department of Environmental Protection Chapter 151 – Architectural and Industrial Maintenance Coatings (AIM) VOC content limit for Concrete Curing Compounds of 350 grams per liter.

Criteria

All products must comply with MaineDOT Standard Specifications: Current Version, Section(s) 502; 518; 526; 535; 608; & 712 and ASTM C309-11

Types

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.

Other

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 degrees 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.

PRODUCT CONFORMITY: At the discretion of MaineDOT, any shipment of product to a MaineDOT location may be tested, such as by infrared or gas chromatography, for compliance with the SDS and uniformity with the formulation of the approved product (where applicable).

MaineDOT Qualified Products Acceptance Criteria

Concrete Curing Compounds

NOTE: MaineDOT may require a field evaluation before final acceptance and inclusion on the Qualified Products List (QPL).

A vendor who wishes to have products preapproved for future use should contact MaineDOT's Product Evaluation Coordinator via email at NewProducts.MaineDOT@maine.gov or by calling (207) 557-1788. More information can also be found on our website, including our electronic submittal and recertification forms.

Submittals

Product Submittal Packets shall include the following information:

- [Electronic New Product Submittal](#) form
- Current Technical Data Sheet
- Current Safety Data Sheet (SDS)
- Third Party, Independent Test Results OR AASTHO Product Evaluation & Audit Solutions (formerly NTPEP) testing ID for those products requiring this testing

Incomplete submittals will not be evaluated for inclusion on MaineDOT's Product Lists.

All reports shall be issued and signed by an authorized laboratory representative. The report shall include date of testing, product name, and the physical and/or chemical requirements stated herein.

Product Changes

Any change in a product, such as formulation, shall require re-testing (through AASTHO Product Evaluation & Audit Solutions (formerly NTPEP) if required) or independent, third-party lab. Manufacturers shall notify MaineDOT of products changes and resubmit as a new product for re-evaluation, failure to do so may result in removal of product from MaineDOT's QPL.

Manufacturers shall submit, for re-evaluation, an updated independent analytical laboratory report (or AASTHO Product Evaluation & Audit Solutions (formerly NTPEP) testing ID) prior to approval or purchase by MaineDOT.

Recertifications

MaineDOT requires re-certification by all manufacturers every five years (except for electrodes used for field welding which are recertified every year) to ensure that product names and formulations have remained the same since the product was originally placed on this list and that products are still relevant and in production. Where applicable, this shall include the most recent AASTHO Product Evaluation & Audit Solutions (formerly NTPEP) testing ID. Additionally, AASTHO Product Evaluation & Audit Solutions (formerly NTPEP) provides for retesting products.

MaineDOT Qualified Products Acceptance Criteria

Concrete Curing Compounds

A lapse of AASTHO Product Evaluation & Audit Solutions (formerly NTPEP) testing/audit schedule as set forth in the associated workplan shall result in disqualification of the product.

Manufacturers of any products requiring MASH testing must contact MaineDOT Product Evaluation Program of any changes to their products. Manufacturers are responsible for tracking their recertification dates, reminders will not be sent. Failure to recertify products may result in removal from the QPL. Recertifications can be completed using the [Electronic Certificate of Compliance](#) found on our website.

Other Information

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

Furthermore, the ability of a product to meet these requirements does not necessarily guarantee addition to the Qualified Products List. Reminder that, products once placed on the Qualified Products List are to be considered prequalified for use only, meaning that they have undergone preliminary review for compliance with MaineDOT, and AASHTO specifications. As with all products, final approval rests with the Designer, Project Manager, Supplier and/or Resident to determine if a product best suits the need of a particular project.

If you are experiencing difficulties reading or printing this page, or have questions regarding the Qualified Products List website, please contact the Product Evaluation Program Coordinator at (207) 557-1788 or by email at: NewProducts.MaineDOT@maine.gov