

State of Louisiana
Department of Transportation and Development (DOTD)
Materials and Testing Section Approved Materials Procedure
for

LIQUID MEMBRANE-FORMING COMPOUNDS

MATERIAL SPECIFICATION REFERENCE:

DOTD Standard Specification, Subsection 1011.01, ASTM C309, Supplemental Specifications and Special Provisions.

APPROVED MATERIAL EVALUATION SUBMITTAL:

The manufacturer shall submit a completed Approved Materials Evaluation Submittal to the DOTD Materials and Testing Section Coordinator listed below.

PRELIMINARY REQUIREMENTS:

The complete submittal must include:

- Complete Approved Materials Evaluation Form
- Letter requesting evaluation of the material
- Product Data Sheets
- Manufacturer's specifications
- Safety Data Sheet (SDS)
- Sample
- Independent Laboratory Test Results
- AASHTO National Transportation Products Evaluation Program (NTPEP) Results

The address of the contact affiliated with AASHTO NTPEP is:

NTPEP Coordinator
AASHTO National Transportation Products Evaluation Program
444 N. Capitol St. N.W.
Suite 249
Washington, D.C. 20001
Phone: (202) 624-3695
Fax: (202) 624-5806
<http://data.ntpep.org>

For detailed information, refer to the Operational Procedures of the AASHTO NTPEP available from the NTPEP Coordinator.

NOTE: Evaluation will not begin until all required items listed above are received by the Materials Laboratory

PRELIMINARY REQUIREMENTS CONTINUED:

Certifications and/or Test Reports

Prior to submitting an "Approved Materials Evaluation Form" to the Materials and Testing Section, the manufacturer shall have successfully completed the requirements of the AASHTO NTPEP for "Evaluation of Concrete Curing Compounds". The laboratory results obtained from the AASHTO NTPEP report will be used to determine conformance of the material to LA DOTD Standard Specifications.

The manufacturer shall provide a Certificate of Analysis (CA) by an independent laboratory showing the required physical and chemical properties for all liquid membrane forming compounds in accordance with LA DOTD Standard Specifications.

Product Data Sheets shall provide all pertinent information relative to the material to be evaluated, including but not limited to:

- Manufacturer's specifications
- Shelf life
- Agitation requirements (if required)
- Recommended application procedure
- Application rate

Sample (to be furnished at no cost to the Department)

Submit a one (1) quart sample of the material to the Materials and Testing Section for laboratory testing and evaluation. Additional material may be required for a field evaluation. All samples submitted for evaluation shall be obtained from routine production and from a readily identifiable source or quantity.

TEST REQUIREMENTS:

Laboratory Testing

The qualification sample shall be tested in accordance with ASTM C309. Chemical and physical composition of the material will be determined by an Infrared Spectrophotometric Analysis (FTIR Curve) and Percent Solids Test respectively and evaluated.

Field Evaluation

The Department may require a field evaluation to ensure satisfactory installation and performance prior to adding the material to the Approved Materials List (AML).

Evaluation Time (2 Months)

GENERAL:

Upon completion of the evaluation, the submitter will be notified in writing concerning the results of the evaluation and whether the material will or will not be added to the Approved Materials List (AML). The DOTD Materials and Testing Section Coordinator shall be notified in writing of any change from the original material submittal. The Department reserves the right to re-evaluate any material at any time. A Certificate of Analysis (CA) of the material along with a one (1) quart verification sample shall be submitted every two (2) years to the DOTD Materials and Testing Section to remain on the AML.

It is also the manufacturer's responsibility to supply the contact information of the representative responsible for the material to the Materials Section Coordinator to remain on the AML. This is done by completing the Approved Materials Evaluation Form every two (2) years or when there is a change in the manufacturing representative responsible for the material.

PROJECT ACCEPTANCE REQUIREMENTS:

The inclusion of any material on the AML is not blanket approval for its use. All materials, regardless of prior approval, shall be sampled in accordance to the Materials Sampling Manual.

DISQUALIFICATION AND REMOVAL:

Any material may be removed from the AML at any time. Causes for removal from the AML may include, but are not limited to the following:

- Non-conformance with specifications
- Performance requirements
- Failure to notify the Department of any change in material formulation
- Failure of the supplier to provide proper certifications as required by this procedure
- Failure to supply biennial verification samples in accordance with this procedure
- Failing test results obtained by the Materials Section of project verification samples
- Failure to supply current contact information for the material representative in accordance with this procedure

REQUALIFICATION:

Any material which has been disqualified and/or removed from the AML will be considered for re-evaluation only after submission of a formal request along with acceptable evidence that the problems causing the disqualification and/or removal have been resolved.

DOTD MATERIALS AND TESTING SECTION COORDINATOR:

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Baton Rouge, LA 70806-4132
(225) 248-4219
Justin.Morris@la.gov

Approved 05/24/17

A handwritten signature in black ink, appearing to read "B. Owens", is positioned above the printed name of the DOTD Materials Engineer Administrator.

BRIAN OWENS, P.E.
DOTD MATERIALS ENGINEER ADMINISTRATOR