

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

**MAINTENANCE OVERCOATING FOR STEEL BRIDGES**

**MATERIAL SPECIFICATION REFERENCE:**

DOTD Special Provisions, Subsection 811, Painting and Protective Coatings  
DOTD Special Provisions, Subsection 1008.08

**APPROVED MATERIALS 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 systems
- Product Data Sheets
- Safety Data Sheet
- Manufacturer's specifications
- NEPCOAT/NTPEP Product Evaluation (if applicable) as specified below
- Sample

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.

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

One quart for each coat shall be submitted for wet sample testing.

All containers shall be labeled showing:

- Manufacturers Brand Name
- Lot/Batch Number
- Date of Manufacture

**TEST REQUIREMENTS:**

Surface Preparation

Minimum surface preparation shall be required to remove all debris, oils/grease, and loose paint. The minimum suggested preparation is a 1,500 psi pressure wash using a 20 degree nozzle held no more than 12 inches from the surface, and may contain a biodegradable detergent for the removal of oil/grease. Pressure washing shall not exceed 3,500 psi for evaluation purposes. Various other site specific surface preparation requirements may be identified in contract documents and will supersede the methods described herein for that specific contract.

Laboratory Testing

All tests to be performed in accordance with the requirements of the following:

<u>PROPERTY</u>	<u>TEST METHOD</u>
Pigment Content	ASTM D 2698
Density	ASTM D 1475
Total Solids Content	ASTM D 2369
Non-volatile in Vehicle Content	ASTM D 2698
Viscosity, Ku	ASTM D 562
Dry to Touch	ASTM D 1640
Dry Through	ASTM D 1640
Sag, Lenetta	ASTM D 4400
Infrared Spectrum	DOTD TR 610

Field Evaluation

The field evaluation is to be one of the following options to be determined by the Department:

- 1) Completion of overcoat field evaluation in accordance with NEPOVERCOAT standards.
- 2) Completion of overcoat field evaluation in accordance with NTPEP standards.
- 3) Completion of overcoat field evaluation in accordance with LA DOTD standards.

### **TEST REQUIREMENTS CONTINUED:**

If options one or two are used, the final test results of the field test areas are to be evaluated by the Materials Lab to determine minimum passing results. If the overcoat paint system meets minimum requirements, it is to be added to the AML for overcoat systems.

If option three is used, the Department shall apply the overcoat paint system alongside a control paint system over an aged red lead paint system and/or alternate system as determined by the AML Coordinator. After a three year evaluation, the paint system being evaluated shall perform as well or better than the control paint system in the areas of blistering, rusting, fading, chalking and adhesion. If the overcoat paint system meets minimum requirements, it is to be added to the AML for overcoat systems.

#### Evaluation Time

Total Evaluation Time 36 months.

### **GENERAL:**

Upon completion of the evaluation, the submitter will be notified in writing concerning the results of the evaluation and whether the system will or will not be added to the Approved Materials List (AML). The DOTD Materials and Testing Section Coordinator must be notified in writing of any change from the original system submittal. The Department of Transportation and Development reserves the right to reevaluate any system at any time. A Certificate of Analysis (CA) of the system shall be submitted annually to the DOTD Materials and Testing Section Coordinator 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 system on the Approved Materials List is not blanket approval for its use. All systems, regardless of prior approval, shall be sampled in accordance with the Materials Sampling Manual.

### **DISQUALIFICATION:**

Any system 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 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 system which has been disqualified and 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**

Michael Grubb  
Chemical Laboratory Engineer  
DOTD Materials and Testing Section  
5080 Florida Blvd.  
Baton Rouge, La. 70806-4123  
Phone (225) 248-4121  
FAX (225) 248-4187  
[Michael.grubb@la.gov](mailto:Michael.grubb@la.gov)

Approved 05/24/17



BRIAN OWENS, P.E.  
DOTD MATERIALS ENGINEER ADMINISTRATOR