

**Minnesota Department of Transportation**  
**Bridge Paint Qualification Procedure**  
**Date 09/29/08 (rev. – 2/9/17)**

**A. Introduction/Scope:** MnDOT uses the AASHTO NTPEP Structural Steel Coatings Testing Program for consideration for placement on the Approved Products List. MnDOT does not evaluate individual primers, intermediate and finish coats but approves coating systems

**B. Specifications**

**A. Product Requirements**

MnDOT uses NEPCOAT Qualification Requirements along with MnDOT Standard Specification 3520 or applicable special provisions to evaluate the data submitted in the submittal package for specification compliance.

**B. Environmental Requirements**

Coating Systems must go through the MnDOT Office of Environmental Services Hazardous Evaluation Process

**C. Product Submittal**

Send submittal package to Allen Gallistel at the address listed below and submit paint system for testing per NTPEP instructions directly to NTPEP, unless this testing is already completed.

Submittal package should include:

- Completed New Products Application Form (Attached)
- Submittal letter naming primer, intermediate (if applicable), and finish coat trade names
- Completed NTPEP Test Data
- Manufacturer contact name, address, phone number and email address
- Product Data Sheets on all components including mixing and curing directions.
- Safety Data Sheets for all components
- Performance History References in a cold, heavy salt spray environment (if available)
- References from other public agencies that have used the submitted system on their bridges (if available)
- A pint of each component for Infrared Spectrum scans. Any un-approved change to system formulation will result in removal from the Approved Products List. These Infrared Scans will be used as references for Quality Assurance Testing.
- Certification that products meet Minnesota Statute 115A.9651 requirements for

- heavy metals
- Any independent lab testing available on the submitted coating system
- Completed MnDOT Office of Environmental Services Hazardous Evaluation Process Documentation (attached)

**C. NTPEP Testing:**

Submit paint system per NTPEP instructions directly to NTPEP. On-line submittals can be done by accessing the following link.

<http://www.ntpep.org/Pages/SubmitProduct.aspx>

The testing protocol and work plan can be accessed at:

<http://www.ntpep.org/Pages/ProtectiveCoatings.aspx>

**D. Contact information and submittal package delivery address:**

Allen Gallistel  
MnDOT Office of Materials & Road Research  
Chemical Lab Director  
1400 Gervais Ave  
Maplewood, MN 55109

Telephone: 651 366-5545  
[allen.gallistel@state.mn.us](mailto:allen.gallistel@state.mn.us)

- E. Time line for submittal:** Submittals are accepted at any time through the NTPEP testing program with testing taking several months in addition to the MnDOT review of submitted information
- F. Final Approval:** Manufacturer contact will be notified of approval status upon completion of the review of submittal package. Upon meeting current NEPCOAT acceptance criteria, MnDOT specifications, and submittal process requirements the submitted bridge paint system will be placed on MnDOT's Approved Products List

**State of Minnesota**  
**Department of Transportation**  
**New Product Preliminary Information Form**

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INSTRUCTIONS: Answer ALL questions. Where a question is not applicable enter "N/A".  
Attach additional sheet(s) as required with reference to item number.  
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Date: \_\_\_\_\_

1. Trade Name \_\_\_\_\_

Manufacturer \_\_\_\_\_

Phone No. (\_\_\_\_\_) \_\_\_\_\_

Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Patent pending Yes \_\_\_\_ No \_\_\_\_ Patent No. \_\_\_\_\_

2. Local Distributor \_\_\_\_\_ Phone No. (\_\_\_\_\_) \_\_\_\_\_

Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

3. Recommended Primary  
Use: \_\_\_\_\_  
\_\_\_\_\_

4. Describe product, material equipment or process:  
\_\_\_\_\_

5. Describe any limitations or use restrictions:  
\_\_\_\_\_  
\_\_\_\_\_

6. Material composition (attach laboratory test results, storage requirement, shelf life,  
Material Safety Data Sheet and disposal procedure):  
\_\_\_\_\_  
\_\_\_\_\_

7. Outstanding feature or advantage claimed:  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

8. Date introduced on market \_\_\_\_\_. Alternate for what existing product?  
\_\_\_\_\_

9. a. Total Estimated Cost Per Unit Material (including delivery) \_\_\_\_\_  
b. Total Estimated Cost Per Unit Furnished and Installed \_\_\_\_\_

10. Does product meet requirements of any of the following specifications?  
(Give specific number.)  
AASHTO \_\_\_\_\_ ASTM \_\_\_\_\_ Fed. Spec. \_\_\_\_\_ Mn/DOT \_\_\_\_\_  
Others (state and attach specifications) \_\_\_\_\_

11. Indicate whether this product has been evaluated by a national or regional product  
evaluation program? (Attach any results.)  
\_\_\_\_\_ HITEC \_\_\_\_\_ NTPEP \_\_\_\_\_ Others (specify)

12. Cite use by other agencies and persons to be contacted concerning experience with use,  
including how many years used, and whether use has been experimental or routine (list  
names, titles, mailing address and phones):  
\_\_\_\_\_  
\_\_\_\_\_

13. Note here and attach any test results, reports, etc., from the organizations above:  
\_\_\_\_\_  
\_\_\_\_\_

14. Is a documented quality control process available for this product?  
\_\_\_\_\_  
\_\_\_\_\_

15. Who has been contacted within Mn/DOT about this product? \_\_\_\_\_  
\_\_\_\_\_  
Has this person been sent a copy of this form? \_\_\_\_\_

16. Additional comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Name and Title of person completing this form:

\_\_\_\_\_  
Address, State, Zip:

\_\_\_\_\_  
Date: \_\_\_\_\_ Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

Email Address: \_\_\_\_\_

\_\_\_\_\_ Manufacturer \_\_\_\_\_ Representative

MnDOT Office of Environmental Stewardship  
Hazardous Evaluation Process

The Mn/DOT Office of Environmental Services developed the Hazard Evaluation Process (HEP) as a tool to determine potential environmental impacts that could result from use of a product and consequently, if the product is acceptable for use on Mn/DOT infrastructure. The following information must be submitted by the vendor in order for Mn/DOT to complete the HEP:

1. Vendor information
  - a. Name of Company
  - b. Address
  - c. Technical Contact Name and Telephone Number
  - d. Application Date
  - e. Product Trade Name
  - f. Product Chemical Name
  - g. Product Data Sheet
2. Provide Material Safety Data Sheets for all chemicals in the product/waste material.
3. Regulatory Approvals & Status:
  - a. Licenses
  - b. Approval
  - c. Permits
  - d. TSCA Listing
4. Chemical Status:
  - a. Provide Individual Chemical & Physical Properties (OECD<sup>1</sup> Methods 102, 103, 104, 105, 111, 112, 113, 117, 121);
  - b. Identify chemicals with molecular weights greater than 1000 Daltons (OECD Methods 118, 120 or equivalent);
  - c. Certification that final product would not be considered a hazardous waste under Minnesota Rules Chapter 7045 if disposed of unused;
  - d. Names and Chemical Abstract Numbers (CAS numbers) of the reportable substances in the product (40 CFR 302);

The following product-specific information must be submitted if known. If information for a representative test is unknown it must be stated as such.

EPA SW-846 test method information can be found at:

<http://www.epa.gov/epaoswer/hazwaste/test/main.htm>

OECD product test method information can be found at:

<http://www.oecd-ilibrary.org/>

U.S. EPA Office of Prevention, Pesticides and Toxic Substances Harmonized Test Guidelines can be found at: <http://www.epa.gov/ocspp/pubs/frs/home/guidelin.htm>

- a. Leach test results (EPA Method 1311 and OECD Method 312 with subsequent analysis for test substance or equivalent method);
- b. Biodegradation (OECD Method 301C, 301D, 302C, 304A, 307, 309 or equivalent method);
- c. Ecotoxicity to include three trophic levels (OECD Method 201, 207, 208, 210, 211 or equivalent method, OPPTS Method 850.5400, 850.1300, 850.6200, 850.4100, 850.4150, 850.1400 or equivalent method);
- d. Other available test data that provide individual chemical fate, exposure and pathway information.

<sup>1</sup> Organization for Economic Co-operation and Development methodology for product testing is preferred but equivalent methods may be acceptable.

Questions regarding the Mn/DOT Hazard Evaluation Process can be sent to:

[robert.d.edstrom@state.mn.us](mailto:robert.d.edstrom@state.mn.us)