

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
MATERIALS CONTROL, SOILS & TESTING DIVISION
MATERIALS PROCEDURE

QUALITY ASSURANCE TESTING OF COATING PRODUCTS
LISTED ON WVDOH APPROVED PRODUCT LISTS (APLs)

1. PURPOSE

- 1.1 To establish a procedure to perform quality assurance (QA) testing on coatings products listed on MCS&T's Approved Product Lists (APLs).
 - 1.2 To establish a procedure for maintaining a record of such information.
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2. REFERENCED DOCUMENTS

- 2.1. WVDOH Specifications, Section 711 Protective Coatings, Stains, and Traffic Paints.
 - 2.2. WVDOH Specifications, Section 601.13.3 Concrete Protective Coating.
 - 2.3. WVDOH Specifications, Section 707.16 Concrete Protective Coating Materials.
 - 2.4. MP 106.00.02 - Procedure for Evaluation of New Products for Use in Highway Construction
 - 2.5. MP 711.00.20 Paint Testing Methods, most recent edition.
 - 2.6. MCS&T Division Approved Product Lists (APLs) for coating products.
 - 2.7. AASHTO Product Evaluation and Audit Solutions (APEAS).
 - 2.8. Northeast Protective Coating Committee (NEPCOAT).
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3. QUALITY ASSURANCE TESTING PROCEDURE

- 3.1. The quality assurance (QA) testing shall be performed on each approved coating listed on any of MCS&T's APLs.
- 3.2. The QA testing shall be performed in MCS&T's Paint Laboratory and by MCS&T personnel.
- 3.3. The QA testing shall be performed every calendar year.
- 3.4. MCS&T shall obtain a sample of each approved product from the coating manufacturer.

- 3.5. The coating manufacturer shall supply a sufficient quantity of the product to perform all the required testing.
- 3.6. Each coating product shall be tested in accordance with the appropriate WVDOH Specification.
- 3.7. Each product shall be tested based on the testing requirements in the WVDOH Specifications.
- 3.8. The coating manufacturers will submit Safety Data Sheets (SDS) and Product Data Sheets (PDS) directly to MCS&T.
- 3.9. The coating manufacturers shall submit clearly marked samples, as well as, all required documentation for mixing and application directly to MCS&T.

4. QUALITY ASSURANCE HISTORICAL DATA

- 4.1. MCS&T shall maintain a spreadsheet for the purpose of collecting historical data for each coating product tested.
- 4.2. The historical data for each coating product will be analyzed yearly to determine if each product continues to meet the specification requirements necessary to remain on our APLs.
- 4.3. MCS&T will store the spreadsheet in a ProjectWise folder located under the Environmental & Coatings Group's folder.

5. APEAS TEST DATA

- 5.1. MCS&T shall obtain APEAS's test data for each product by using the DataMine function located on the AASHTO webpage.
- 5.2. [NEPCOAT](https://www.nepcoat.org/)¹ use the test data from APEAS to generate their Qualified Product List.
- 5.3. Any product that uses APEAS's test data to obtain APL approval shall be compared to MCS&T's test data each year.

6. MCS&T'S QUALITY ASSURANCE TESTING

- 6.1. MCS&T will use the spreadsheet data, as described in Section 4, to perform QA testing analysis.
- 6.2. The purpose of the QA testing is to determine if each of the coating products listed on our APLs are still satisfying our specification requirements.
- 6.3. Products that meet the specification requirements, based on MCS&T's test data, will remain on the APL.
- 6.4. Products that do not meet the specification requirements, based on MCS&T's test data, shall go through an internal investigation.

¹ <https://www.nepcoat.org/>

7. MCS&T INTERNAL INVESTIGATION

- 7.1. MCS&T shall perform an internal investigation on any coating product that does not meet the specification requirements necessary to remain listed on our APLs.
- 7.2. MCS&T shall run a second test on any sample that fails. If MCS&T's test data from the second test passes, then the product will remain listed on our APLs.
- 7.3. However, if MCS&T's test data from the second test does not pass, then APEAS shall run a second test on the sample. If APEAS's test data from the second test passes, then the product will remain on our APLs.
- 7.4. If the second test data from both MCS&T and APEAS fails, then the product will be removed from our APLs.
- 7.5. The findings from the internal investigation shall be kept with the historical data spreadsheet, described in Section 4.
- 7.6. MCS&T shall notify the company about the removal of their product from our APLs. The company must wait one year from the date of the removal before they will be allowed to resubmit their product to MCS&T.
- 7.7. The company must resubmit their product through MP 106.00.02 Procedure for Evaluating Products for use in Highway Construction. MP 106.00.02 requires HL-468 Form to be submitted to MCS&T. This form is available at the WVDOH MCST [Webpage](#)².

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MP 711.00.22 Steward – Environmental and Coatings Section
MAM:P

² <https://transportation.wv.gov/highways/mcst/Pages/MP-100s.aspx>