PREFACE

This Method provides procedures for conducting quality assurance sampling and testing of paints used by NYSDOT on structural steel applied both in the shop and in the field. The Method also issues a new Structural Steel Paint Sample Transmittal (SSPST) Form to be used for transmitting the paint samples to the laboratory.

The Method provides material quality assurance support for the Standard Specifications 572, 573, 574, 708-01 and 708-02 which became effective as of the letting of May 4, 2006.

This Method serves to update and supersede the previous version of Materials Method NY 6, February 1970, Sampling and Lot Control of Field Coat and Shop Coat Paints, which guided stock lot acceptance quality assurance procedures for lead-based structural steel paints. The revision was necessary since the Department has discontinued the use of lead-based paint for safety and health reasons.

Note: This Materials Method may require the use of hazardous materials and safety sensitive procedures. This Method does not address any of the safety problems associated with its use. It is the responsibility of the user of this Method to establish appropriate safety and health practices and determine the applicability of regulatory limitations before use.
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NEW YORK STATE
DEPARTMENT OF TRANSPORTATION

Materials Bureau

APPROVAL and QUALITY ASSURANCE of
CLASS 1 and CLASS 2 STRUCTURAL STEEL PAINTS

I. SCOPE

This method describes specific procedures for the Approval and Quality Assurance of Class 1 and Class 2 Structural Steel Paints manufactured for Department projects. It encompasses an approval process, a Department field sampling and testing program for Quality Assurance, and guidelines for removal of paint systems from the Approved List for quality or performance based issues. This procedure benefits Department projects by screening the consistency and performance of materials used on structural steel coating project work. Structural Steel Paints are governed by New York State Department of Transportation Standard Specifications 708-01, 708-02, 572, 573 and 574.

II. DEFINITIONS

1. Manufacturer

A company actually engaged in the production of paint products at a given location.

2. Shop

A company engaged in painting metal structures for Department projects in an off-site building or enclosure with a roof and four walls to grade.

3. Department

The New York State Department of Transportation.
4. **Materials Bureau**

A group within the Department’s Office of Technical Services, located in Albany, New York. For purposes of this document, unless otherwise stated, Materials Bureau refers to the Paint Group within the General Engineering section of the Office of Technical Services’ Materials Bureau.

5. **Product Operations**

A section within the Materials Bureau that performs various shop inspection and quality assurance duties.

6. **Shop Inspector**

An individual(s) responsible to the Engineer for inspection control and paint sampling at a shop (or shops) under contract to paint metal surfaces.

7. **Engineer**

The individual representing the Department on a construction contract, having direct supervision of the execution of the contract under the direction of the Regional Director.

8. **Batch of Paint**

A batch shall consist of a specific specification paint which is canned at one time from a single pouring tank. This may be the combination of two or more mix tanks that have been completely blended in the pouring tank, but may never represent more than a single pouring tank, filled once. Each batch of paint is assigned a Batch Number by the manufacturer.

9. **Lot**

A lot shall consist of one batch of paint only.

10. **Containers**

Strong metal containers for packaging paint products furnished in a one or five gallon size. Any other type of packaging must have prior approval of the Materials Bureau.

a. One/Five Gallon Pails are the typical “paint pail” style using covers with or without lugs with no openings or with sealed bung caps for tinting.
b. **A Kit** consists of two or more “paint pails”, each containing a single component of a multi-component paint. All components in a kit are combined and mixed in a container of sufficient size to hold the supplied mixed volume prior to application.

11. **SSPST Form**

The Structural Steel Paint Sample Transmittal Form (SSPST Form) in Appendix A of this document is provided for use by the Materials Bureau and their representatives to document information gathered during shop or field paint sampling and transmit it to the Materials Bureau.

12. **Sample**

The sample shall be a paint pail (or kit in the case of multi-component paint systems) in the original sealed container(s).

13. **LIMS**

The Department’s computer-based Lab Information Management System.

III. **BASIS OF APPROVAL FOR CLASS 1 SHOP AND FIELD APPLIED STRUCTURAL STEEL PAINT SYSTEMS**

This procedure describes the approval requirements for Class 1 Shop and Field Applied structural steel paint systems. All the requirements of this procedure have to be met for the paint system (primer, intermediate and finish) to be considered for inclusion on the Department’s Class 1 Structural Steel Paint Approved List. The Class 1 Structural Steel Paint Approved List can be found on the internet at:

https://www.nysdot.gov/divisions/engineering/technical-services/technical-services-repository/alme/pages/paintclass-1.html#a

1. **General**

   a. The paint system shall meet the requirements of §572, §573 and §708-01.

   b. The paint system must be NTPEP tested and NEPCOAT approved.
2. Requirements for Placement on Class 1 Approved List

<table>
<thead>
<tr>
<th>Responsibility</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manufacturer</td>
<td>a. Submits the proposed paint system to NTPEP for testing as per NTPEP’s AASHTO R-31 standardized paint testing program, at his expense. (Refer to NTPEP website <a href="https://www.nt">https://www.nt</a> pep.org).</td>
</tr>
<tr>
<td></td>
<td>b. NTPEP results must be evaluated and accepted by NEPCOAT. (Refer to NEPCOAT website <a href="https://www.nepcoat.org">https://www.nepcoat.org</a>).</td>
</tr>
<tr>
<td></td>
<td>c. After NEPCOAT approval, submit a request on company letterhead seeking (Approved List) approval as a NYSDOT Structural Steel Class 1 paint system. Include NTPEP results, NEPCOAT approval information, field histories of the coating system, Material Safety Data Sheets for all components of paint, and Product Data Sheets.</td>
</tr>
</tbody>
</table>

Send Approved List approval request to:

Director, Materials Bureau  
New York State Department of Transportation  
50 Wolf Road, POD 3-4  
Albany, New York 12232

Product Data Sheets must contain all information listed in Standard Specification 708-01. If any required information is missing from the Product Data Sheets, the Manufacturer must either revise the incomplete Product Data Sheet(s), or submit a letter(s) to NYSDOT Materials Bureau at the address above listing the omitted information. The letter(s) will serve as an addendum to the Product Data Sheet(s).

| Materials Bureau | d. Reviews Manufacturer’s submissions. Coordinates with the Manufacturer to obtain any incomplete or missing information. |
|                 | e. Determines whether the submitted paint system fulfills the requirements of the above policies and procedures. |
Responsibility | Action
--- | ---
Materials Bureau & Manufacturer | f. Notifies the Manufacturer when the paint system submissions are complete and acceptable, and requests, for each coat of the paint system, a Physical Data Sheet on signed company letterhead, and “formulation target” (median) values of the following:

1. % Solids by Weight (Part A, Part B, and Mixed)
2. % Pigments by Weight (Part A, Part B, and Mixed)
4. Viscosity (KU; Part A, Part B, and Mixed)
5. Weight/kit (Part C; Zinc Powder)

Since color may affect Physical Data median values, these values must be reported for each color supplied to the Department. The Materials Bureau Laboratory test values shall fall within the NEPCOAT (https://www.nepcoat.org) specified ranges of the NTPEP test values for primer and intermediate coats, and the manufacturer's median value for the topcoat. The FT/IR spectra for the tested materials must match the FT/IR spectra collected by NTPEP. Other physical and chemical properties may be tested. All properties stated on the manufacturer's Product Data Sheet and Physical Data Sheet are expected to conform.

Materials Bureau | g. Upon receipt of the completed Physical Data Sheets, places the acceptable paint system on the Approved List.

h. Monitor the application, formulation and field performance of the newly approved paint system for the period that begins upon Approved List notification, and which will end one year after completion of the third supplied Department contract. (This monitoring period is designed to establish case history on New York State owned bridges.)

Manufacturer | i. Once on the Approved List, the Manufacturer shall notify the Materials Bureau (see address in III.2.c, above) of any formulation or Product Data Sheet changes. **Failure to notify the Materials Bureau shall result in the removal of the system from the Approved List.**
Responsibility  Action

Manufacturer  j. Notify the Department (address in III.2.c) each time the Manufacturer’s paint system is supplied to a Department contract, providing contract “D” number and batch physical data values (including all values listed in III.2.f, above) for each batch of all coats of paint supplied.

IV. BASIS OF APPROVAL FOR CLASS 2 LOCALIZED AND OVERCOAT FIELD APPLIED STRUCTURAL STEEL PAINT SYSTEMS

This procedure describes the approval requirements for Class 2 localized, and overcoat (field applied) structural steel paint systems. All the requirements of this procedure have to be met for the paint system (primer, intermediate and finish coat) to be considered for the Department’s Class 2 Structural Steel Paint Approved List. The Class 2 Structural Steel Paint Approved List can be found on the internet at:

https://www.nysdot.gov/divisions/engineering/technical-services/technical-services-repository/alme/pages/paintclass-1.html#b

1. General

a. The paint system shall meet the requirements of §574 and §708-02.

b. The paint system must be NTPEP tested and meet NEPCOAT List B criterion, unless grandfathered according to item IV.1.d, below.

c. All systems on the Class 1 Approved List will automatically be listed on the Class 2 Approved List for “Localized” painting, but not for “Overcoat” painting.

d. All systems on the Class 2 Approved List as of May 4, 2006 will be grandfathered based on testing and field history. They will not be required to meet NEPCOAT List B criterion based on NTPEP testing. They will, however, be required to maintain quality standards established in Materials Bureau documented standards and policies for Class 2 paint systems.
2. Requirements for Placement on Class 2 Approved List

<table>
<thead>
<tr>
<th>Responsibility</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manufacturer</td>
<td>a. A Manufacturer seeking approval after May 4, 2006 must submit the proposed paint system to NTPEP for testing, at his expense. (Refer to NTPEP website <a href="http://www.ntpep.org">www.ntpep.org</a>)</td>
</tr>
<tr>
<td></td>
<td>b. NTPEP results must meet or exceed the same NEPCOAT criterion established for List B organic zinc paint. (Refer to NEPCOAT website <a href="https://www.nepcoat.org">https://www.nepcoat.org</a>)</td>
</tr>
<tr>
<td></td>
<td>c. After NTPEP testing, submit a request on company letterhead seeking (Approved List) approval as a NYSDOT Structural Steel Class 2 paint system. Include NTPEP results, field histories of the coating system, Material Safety Data Sheets for all coats of paint, and Product Data Sheets.</td>
</tr>
</tbody>
</table>

Send Approved List approval request to:

Director, Materials Bureau
New York State Department of Transportation
50 Wolf Road, POD 3-4
Albany, New York 12232

Product Data Sheets must contain all information listed in Standard Specification 708-02. If any of the required information is missing from the Product Data Sheets, the Manufacturer must either revise the incomplete Product Data Sheet(s), or submit a letter(s) to the Materials Bureau listing the omitted information. The letter(s) will be considered an addendum to the Product Data Sheet(s). The address of the Materials Bureau is the same as listed above.
Responsibility | Action
---|---
Materials Bureau | d. Reviews Manufacturer’s submissions. Coordinates with the Manufacturer to obtain any incomplete or missing information.
e. Determines whether the submitted paint system fulfills the requirements of the above policies and procedures.
Materials Bureau & Manufacturer | f. Notifies the Manufacturer when the paint system submissions are complete and acceptable, and requests, for each coat of the paint system, a Physical Data Sheet on signed company letterhead, and “formulation target” (median) values of the following:
1. % Solids by Weight (Part A*, Part B*, and Mixed)
2. % Pigments by Weight (Part A*, Part B*, and Mixed)
4. Viscosity (KU; Part A*, Part B*, and Mixed)

Since color may affect Physical Data median values, these values must be reported for each color supplied. The Materials Bureau Laboratory test values must fall within the NEPCOAT (https://www.nepcoat.org) specified ranges of the NTPEP test values for primer and intermediate coats, and the manufacturer’s median value for the topcoat. The FT/IR spectra for the tested materials must match the FT/IR spectra collected by NTPEP. Other physical and chemical properties may be tested. All properties stated on the manufacturer’s Product Data Sheet and Physical Data Sheet are expected to conform.

* If paint is multi-component.
Responsibility  Action

Materials Bureau  g. Upon receipt of the completed Physical Data Sheets, places the paint system on the Approved List.

h. Monitor the application, formulation and field performance of the newly approved structural paint system for the period that begins upon Approved List notification, and which will end one year after completion of the third supplied Department contract. (This monitoring period is designed to establish case history on New York State owned bridges.)

Manufacturer  i. Once on the Approved List, the Manufacturer must notify the Materials Bureau (see address in IV.2.c above) of any formulation or Product Data Sheet changes. **Failure to notify the Materials Bureau shall result in the removal of the system from the Approved List.**

j. Notify the Department (address in IV.2.c) each time the Manufacturer’s paint system is supplied to a Department contract, providing contract “D” number and batch physical data values (including all values listed in IV.2.f, above) for each batch of all coats of paint supplied.

V. FIELD AND SHOP PAINT SAMPLING

This procedure describes the method for sampling by the Materials Bureau of Class 1 and Class 2 paint supplied to Department contracts.

Responsibility  Action

Materials Bureau  a. Forecast sampling sites from the Excel table of supplied NYS DOT contracts provided by paint suppliers on the NYS DOT Structural Steel Approved List. This table, “Tracking Paint Supplied to NYS DOT.xls”, is located in the “Paint06” folder on the shared server at P:\Office of Engineering\Technical Services\Materials Bureau\General Engineering. As resources permit, conduct sampling fairly by rotating from one supplier to the next in the table until all of that season’s suppliers have been tested. The Materials Bureau reserves the right to test a manufacturer’s product more than once per season.
<table>
<thead>
<tr>
<th>Responsibility</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Materials Bureau</td>
<td>b. Contact the Engineer to schedule field sampling of paint by Materials Bureau or have Product Operations arrange for shop-sampling.</td>
</tr>
<tr>
<td></td>
<td>c. Arranges for sampling or pickup of paint samples by their representative. If Materials Bureau requests shop-sampling of paint to be used on a Department contract, Product Operations arranges with the Engineer and Shop Inspector for sampling and shipping of paint to Materials Bureau.</td>
</tr>
<tr>
<td>Shop Inspector</td>
<td>d. If requested to do so by Product Operations, the Shop Inspector shall sample paint as per the guidelines set forth in Section V. The Materials Bureau reserves the right to personally sample paint in the Shops.</td>
</tr>
<tr>
<td>Materials Bureau (field) or</td>
<td>e. Randomly selects unused, factory-sealed samples of paint from Department contract jobsite(s) in the presence of the Engineer (field) or from a Shop performing painting work on metal to be used on a Department project.</td>
</tr>
<tr>
<td>Shop Inspector (Shop)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>f. Follow manufacturer’s recommendations, as detailed in the paint’s Product Data Sheet, MSDS sheets, and Section V.0 below for storage and handling of each paint sampled.</td>
</tr>
<tr>
<td></td>
<td>g. If manufacturing date on label of paint components exceeds the maximum 12 month shelf life limit, <strong>do not sample the paint</strong>. The Materials Bureau representative or Shop Inspector must notify the Engineer or Shop, ascertain the quantity of expired product and report on the Structural Steel Paint Sample Transmittal Form (SSPST Form; Appendix A), and choose another container of the component which is within the 12 month limit. If no samples are available on site that are less than 12 months old, call the Head of the Paint Group, Main Office Materials Bureau for direction.</td>
</tr>
</tbody>
</table>
Responsibility | Action
--- | ---
Materials Bureau (field) or Shop Inspector (Shop) h. Review paint Product Data Sheet to become aware of storage requirements. Witness the fact that storage requirements are being followed on the job or Shop site. Note any breach in storage requirements on the SSPST Form. Follow storage requirements during transport of the paint samples from job or Shop site to NYSDOT Chemistry Laboratory.
i. Fill out the SSPST Form, starting with the sample identification number. The Sample Identification Number shall be in the format yyyymmdd_XX/P,I or T, where “yyyy”, “mm”, “dd” is the year, month, day respectively that the sample was taken from the job site; XX, is the first two letters of the paint suppliers company name, if single word (i.e. Ameron = AM, Carboline = CA, MAB = MA, Mercury = ME, Wasser = WA), or the first letter of each word in the case of a two word company name (i.e. Sherwin Williams = SW); and /P or I or T for “prime” or “intermediate” or “topcoat”. Each component in the same multi-component paint should be marked with the same identification number. Each of the three coats of a system should have its own sample identification number, and its own SSPST Form.
j. With permanent marker, mark the sample identification number and contract “D” number on the top and on the label of each component container of each coat of paint retrieved. When marking both numbers on the label, take care to locate them near relevant information about the paint, without covering that information.
k. Take digital photographs of the label of each paint container being retrieved, legibly showing sample identification number and pertinent information on the paint sample (paint name, manufacturer, batch number, date of manufacture, color ...).
<table>
<thead>
<tr>
<th>Responsibility</th>
<th>Action</th>
</tr>
</thead>
</table>
| **Materials**<br>**Bureau (field) or Shop Inspector (Shop)** | l. Have the Engineer or Shop Inspector sign the completed SSPST Form, witnessing the sample being taken and the information on the form.  <br><br>m. Sign and date the SSPST Form.  <br><br>n. Samples all components of all 3 coats of a paint system in original sealed containers. If more than one batch of a paint component is on site, sample largest batch. Do not break seals on paint containers. Repeat sampling per V.a may be conducted on all 3 coats or on a single coat of paint.  <br><br>o. Bring paint samples to Bldg 7A Chemistry Laboratory and store in prescribed staging area. If mailed by Shop Inspector, paint shall be properly packaged, labeled and shipped with copy of the SSPST Form and MSDS to:  <br><br>New York State DOT Laboratories  
Building 7 Loading Dock  
7 Harriman Campus Road  
Albany, NY 12206  
Attn: Chemistry Laboratory  

**direct shipper to maintain paint between 40° and 100° F during shipping and storage**  

Bldg 7 Shipping and Receiving personnel will date stamp the SSPST Form, make two photocopies, mail original form to General Engineering, file one copy, and then transport paint and second copy to the Chemistry Laboratory.  

<table>
<thead>
<tr>
<th>Responsibility</th>
<th>Action</th>
</tr>
</thead>
</table>
| **Materials Bureau** | p. Follow MSDS guidelines when storing paint samples. Copies of MSDS documents can be found on the Class 1 and Class 2 Structural Steel Paint Approved List.  

q. Bring original signed copy of the SSPST Form back to General Engineering. Scan the SSPST Form and merge the scanned copy of the form with digital copies of its relevant container label photos (each photo on a separate page). Save each SSPST Form with photos as .pdf file with title of “yyyymmdd_XX/P, I or T.pdf”.

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r. Request the following tests through LIMS; noting the sample I.D. number, attaching the SSPST.pdf file, and grouping ("bundling") all coats of the same paint system together by Control Number:

<table>
<thead>
<tr>
<th>TEST</th>
<th>Prime Coat</th>
<th>Intermediate Coat</th>
<th>Top Coat</th>
<th>AASHTO R31-06 Section</th>
<th>Standard Test#</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Weight of Zinc, Part C</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Metallic Zinc %</td>
<td>X</td>
<td></td>
<td></td>
<td>X1.3.3</td>
<td>AASHTO TP55 &amp; ASTM D521</td>
</tr>
<tr>
<td>Component A Infrared Spectrum</td>
<td>X X X</td>
<td></td>
<td></td>
<td>X1.2.1.1 or .2</td>
<td></td>
</tr>
<tr>
<td>Component B Infrared Spectrum</td>
<td>X X X</td>
<td></td>
<td></td>
<td>X1.2.1.1 or .2</td>
<td></td>
</tr>
<tr>
<td>Mixed A+B Infrared Spectrum</td>
<td>O O O</td>
<td></td>
<td></td>
<td>X1.2.1.1 or .2</td>
<td></td>
</tr>
<tr>
<td>Viscosity, Part A (KU)</td>
<td>X X X</td>
<td></td>
<td></td>
<td></td>
<td>ASTM D 562</td>
</tr>
<tr>
<td>Viscosity, Part B (KU)</td>
<td>X X X</td>
<td></td>
<td></td>
<td></td>
<td>ASTM D 562</td>
</tr>
<tr>
<td>Viscosity, mixed</td>
<td>O O O</td>
<td></td>
<td></td>
<td>X1.2.2</td>
<td>ASTM D 562</td>
</tr>
<tr>
<td>Mass per Vol., Part A (g/l)</td>
<td>X X X</td>
<td></td>
<td></td>
<td></td>
<td>ASTM D 1475</td>
</tr>
<tr>
<td>Mass per Vol., Part B (g/l)</td>
<td>X X X</td>
<td></td>
<td></td>
<td></td>
<td>ASTM D 1475</td>
</tr>
<tr>
<td>Mass per Vol., mixed (g/l)</td>
<td>O O O</td>
<td></td>
<td></td>
<td>X1.2.3</td>
<td>ASTM D 1475</td>
</tr>
<tr>
<td>Total Solids, Part A (% by mass)</td>
<td>X X X</td>
<td></td>
<td></td>
<td></td>
<td>ASTM D 2369</td>
</tr>
<tr>
<td>Total Solids, Part B (% by mass)</td>
<td>X X X</td>
<td></td>
<td></td>
<td></td>
<td>ASTM D 2369</td>
</tr>
<tr>
<td>Total Solids, mixed (% by mass)</td>
<td>O O O</td>
<td></td>
<td></td>
<td>X1.2.4</td>
<td>ASTM D 2369</td>
</tr>
<tr>
<td>Pigment, part A (% by mass)</td>
<td>X X X</td>
<td></td>
<td></td>
<td></td>
<td>ASTM D 2371</td>
</tr>
<tr>
<td>Pigment, part B (% by mass)</td>
<td>X X X</td>
<td></td>
<td></td>
<td></td>
<td>ASTM D 2371</td>
</tr>
<tr>
<td>Pigment, mixed (% by mass)</td>
<td>O O O</td>
<td></td>
<td></td>
<td>X1.2.6</td>
<td>ASTM D 2371</td>
</tr>
<tr>
<td>Dry Time, mixed (min/to-touch; hr/to-handle)</td>
<td>O O O</td>
<td></td>
<td></td>
<td>X1.2.5</td>
<td>ASTM D 1640</td>
</tr>
<tr>
<td>Pot Life, mixed</td>
<td>X X X</td>
<td></td>
<td></td>
<td>6.4.3.7</td>
<td></td>
</tr>
<tr>
<td>Color Verification</td>
<td>O O O</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

"X" for multi-component paints; "O" for both multi-component and single component paints.
Responsibility        Action

Materials Bureau s. The Head of the Paint Group/General Engineering stores the Form MMNY 6-1 .pdf file on the shared server at P:\Office of Engineering\Technical Services\Materials Bureau \General_Engineering\Paint06 in the “Monitor Testing” folder.

Manufacturer t. When the Department takes paint stock from field or shop sites for testing, the Manufacturer will be liable to replace the sampled quantity upon request from Contractor or Shop and with verification of Department sampling. When stock replacement is requested, the Manufacturer can obtain Department verification of sampling by contacting the Materials Bureau. Replacement stock must be the same batch as originally supplied and sampled unless otherwise approved by the Department.

VI. FIELD AND SHOP PAINT TESTING PROCEDURE

This procedure describes the method for testing samples by the Materials Bureau Chemistry Laboratory of Class 1 and Class 2 paint supplied to Department contracts. Materials Bureau Chemistry Laboratory testing done as part of this procedure serves as a confirmation of material quality as well as a criterion for maintaining Structural Steel Paint Approved List status.

Lab Testing and Reporting Procedures

a. For each paint to be tested, Chemistry Laboratory personnel will print out copies of Product Data/Application Instructions and Material Safety Data Sheets which are linked on the Structural Steel Paints Approved List website (https://www.nysdot.gov/portal/page/portal/divisions/engineering/technical-services/technical-services-repository/alme/pages/paintclass-1.html). The mixing, handling, application, and safety procedures detailed in the Product Data Sheets and MSDS will be followed while performing tests.

b. All tests requested on LIMS submission will be completed, following Materials Bureau Chemistry Laboratory test methods, AASHTO R31 standard practices, and ASTM standard specifications. Applicable AASHTO R31 and ASTM standards are noted on the table in V.r.
c. IR scans will be made first thing after breaking the seals on the containers and homogenizing the contents. All “mixed” measurements will be made within 10 hours of breaking the container seals – all others within 3 days. The results of testing will be reported on LIMS.

d. The Chemistry Laboratory will safely store all unused portions of paint monitor samples in their original covered and labeled containers until released by the Head of the Paint Group to dispose of them, or for 6 months after testing, whichever comes first.

e. The Chemistry Laboratory will follow all safety instructions detailed in the Materials Safety Data Sheets (MSDS) and all local, state, and federal regulations when disposing of unused paint monitor sample.

VII. APPROVED LIST REMOVAL GUIDELINES, STRUCTURAL STEEL PAINT CLASS 1 AND CLASS 2

1. Removal from the Approved List

Newly approved Class 1 and Class 2 Structural Steel Paint systems, while in the initial monitoring period (see Section IV.2.h), may be removed from the Approved List after two of the infractions listed below. Class 1 and Class 2 Structural Steel Paint systems which have successfully completed the monitoring period may be removed from the Approved List after 3 infractions in a calendar year, or for pervasive performance issues indicative of premature failure of the paint system.

Class 1 and Class 2 Structural Steel Paint will be removed from the Approved List(s) based on the following infractions:

a. Out of compliance paint monitor tests (%pigment, %solids, viscosity and weight per vol.). Testing is not limited to the listed parameters above. All information listed on the paint’s Technical Data Sheet is expected to fall within specified ranges.

b. Poor paint performance on Department contracts, including but not limited to color fade; poor color match; non-retention of gloss; constituent separation; and film build, cure time, dry time, and pot life inconsistent with stated values on Product Data Sheets.

c. Expired paint found on the jobsite which was supplied for the job that year.
d. Failure to adequately respond to the Materials Bureau's written request for information or action within 30 days after the date of correspondence. The Manufacturer's contact is the addressee on the approval letter. The Department must be notified in writing if the Manufacturer's contact changes. Incorrect contact information will not be considered an excuse for untimely responses to Department letters.

The Manufacturer's representative or contact will be notified in writing by this Department of any of the above infractions. In this notice, a warning will be provided stating the possibility of Approved List removal with a specified number of repeat infractions within the remaining monitoring period.

The Engineer will be notified of paint monitor test results that are out of compliance.

2. Reinstatement after Approved List Removal

The following conditions must be met prior to reinstatement of a paint system to the Approved List after being removed based on item VII.1, above:

a. The paint system will remain off the Approved List for at least one year from the date of removal.

b. The Manufacturer has submitted adequate written explanations for the infractions, including remediation plans to assure repeat infractions do not occur.

c. If a removed paint system is allowed reinstatement to the Approved List, it will be required to undergo the initial monitoring requirements of a newly approved paint system.
TO CONTACT THE MATERIALS BUREAU –

Write To: Director, Materials Bureau
New York State Department of Transportation
50 Wolf Road, POD 3-4
Albany, New York 12232
Attn: Paint Group Head/General Engineering

Telephone: Paint Group Head
Materials Bureau, General Engineering
Phone Number: (518) 457-4596

Fax: (518) 457-8171
APPENDIX A (forms):

- electronic copy available at:

STRUCTURAL STEEL PAINT SAMPLE TRANSMITTAL

SEND SAMPLES TO

NYSDOT Laboratories
Building 7
7 Harriman Campus Road
Albany, NY 12206

Attention:
☐ Physical Lab
☒ Chemical Lab
☐ Geology Lab

COPY TRANSMITTAL TO

NYSDOT Materials Bureau
50 Wolf Road, Pod 34
Albany, NY 12232

Attention:
☐ Director
☒ General Engineering
☐ Field Engineering 1
☐ Field Engineering 2
☐ Product Operations
☐ Engineering Geology

From: _____(Name / Employer)  Phone: ___

Date: ___  Initials: ___

MATERIALS BEING TRANSMITTED (Quantity, size, type, etc...)]

Identification No. _______ Contractor or Shop: _______ Paint Manufacturer: _______

Paint Name: _______ Primer ☐ Intermediate Coat ☐ Topcoat ☐

Part A: Batch #: _______ Mfr. Date: _______ Qty.: _______ Color: _______ Color Code: _______

Part B: Batch #: _______ Mfr. Date: _______ Qty.: _______ Color: _______ Color Code: _______

Part C: Batch #: _______ Mfr. Date: _______ Qty.: _______ Color: _______ Color Code: _______

PURPOSE FOR SAMPLING / EVALUATION (Attach additional sheets / directions as necessary)

☒ Quality Assurance Sampling

BIN #(s): _______ Region: _______ County: _______ City/Town: _______

Storage Location: _______ Method of Storage: _______ Qty. >12mo in entire lot: _______

EIC: _______ Initials: _______ Contract “D” #: _______

INSTRUCTIONS
• Use this form for shipment of samples for testing as per Materials Method NY 6.
• Include 1 copy of the form & copy(s) of applicable MSDS(s) with samples being shipped.
• Forward 1 copy of the form to the appropriate Materials Bureau Section at 50 Wolf Rd.
• Direct shipper to maintain paint between 40° and 100° F during shipment and storage.

SSPST Form
Photo of Part A Label (resin for epoxy paint; single component for MCU):
- showing paint product information and ID# & D#
Photo of Part B Label (curing agent for epoxy paint; N/A for MCU):
- showing paint product information and ID# & D#
Photo of Part C Label (zinc powder for epoxy paint primer only; N/A for MCU):
- showing paint product information and ID# & D#