



Bureau of Materials Materials Approval Procedures

MAP Number: **119-15**

Effective Date: April 1, 2015

Approved By: Eileen Sheehy

PROCEDURE FOR APPROVAL OF STRUCTURAL STEEL PAINT – IEU AND OEU PAINT SYSTEMS

PURPOSE:

To establish a procedure to approve Inorganic Zinc, Epoxy, Urethane (IEU) and Organic Zinc, Epoxy, Urethane (OEU) Paint Systems for addition to the NJDOT Bureau of Material's Qualified Products List (QPL).

REFERENCES:

New Jersey Department of Transportation Standard Specifications for Road and Bridge Construction
Section 912.01.01

Materials Procedure MP-44, Infrared (IR) Spectrophotometry Analysis of Structural Steel Paint

Materials Procedure MP-34, Chemical Analysis of Structural Steel

North East Protective Coatings Committee (NEPCOAT) www.nepcoat.org

New Jersey Department of Environmental Protection, New Jersey Administrative Code (NJAC)

Title 7, Chapter 27, Subchapter 23 – Prevention of Air Pollution From Architectural Coatings

PROCEDURE:

A. Manufacturer's Request for Approval.

The Manufacturer shall request in writing for the approval of the paint system. Include the following information in the request:

1. The name, address, and contact information for the manufacturer.
2. Letter of approval from NEPCOAT for the paint system
3. Technical datasheet for the primer, intermediate, and finish paints used in the system.
4. VOC data for the primer, intermediate, and finish paints used in the system.
5. Materials Safety Data Sheets (MSDS)

With the request, the manufacturer shall submit a quart sample of the components (Parts A, B, and C) for the primer, intermediate and finish paint for testing by the ME.

Mail the request for approval and samples to the following:

Mailing Address (USPS):

Manager, Bureau of Materials (Thiokol Bldg. 4)
New Jersey Department of Transportation
P.O. Box 600
Trenton, NJ 08625-0600

Street Address(UPS, FedEx, etc.):

Manager, Bureau of Materials (Thiokol Bldg. 4)
New Jersey Department of Transportation
930 Lower Ferry Road
West Trenton, NJ 08628

B. Bureau of Materials Review of NEPCOAT Test Data.

The Materials Engineer (ME) will review the NEPCOAT web site to verify NEPCOAT approval. If the system is NEPCOAT approved as an IEU or OEU paint system and meets the VOC content limits in NJAC 7:27-23, then the ME will approval the paint system. If the paint system does not meet these requirements, the ME will reject the paint system for approval.

C. Bureau of Materials Laboratory Testing

The ME will test each component of the paint system to establish a baseline and tolerance for acceptance of production run samples. The ME will establish the tolerance with the manufacturer for viscosity, weight per gallon, percent solids, percent pigment content and IR spectrophotometry.

PROJECT ACCEPTANCE REQUIREMENTS:

Qualification of a product and addition to the QPL does not constitute a blanket approval of the material. The Contractor for each proposed project must submit the product and source on a Materials Questionnaire as specified in Section 106. The ME will approve the product and source on a project to project basis based on the specifications for the project. The ME will sample, test and accept the material according to the applicable Section of the *NJDOT Standard Specifications for Road and Bridge Construction*.

DISQUALIFICATION:

The ME may remove the product from the QPL for non-conformance with specification requirements, failure of production to stay within tolerance, or for a documented history of poor field performance. The manufacturer shall notify the ME, in writing, of any change in product formulation. Failure to notify the ME of changes in product formulation will result in disqualification.

REQUALIFICATION:

The ME will reevaluate a product which has been disqualified and removed from the QPL only after submission of a formal request along with acceptable evidence that the problems causing the disqualification have been resolved.

The ME may require the manufacturer to requalify the product for any of the following reasons:

1. To ensure that obsolete products are not kept on the list, the ME may request written confirmation from the manufacturer that the product is still available and has not changed formulation. Failure to respond to the Bureau's written request will result in the product being removed from the list.
2. If the formulation of the product has changed, the ME may require that the new formulation be requalified.
3. If the Department's standard specifications change or if the referenced standards change, the ME may require requalification to ensure that the product meets the new specification.