Bureau of Materials
Materials Approval
Procedures

MAP Number: **114-15**

Effective Date: **April 1, 2015**

Approved By: **Eileen Sheehy**

**PURPOSE:**
To establish a procedure to approve epoxies 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
Sections 903.08.02 (B) (Epoxy Grout – Type 1, Grade 3, Class B or C)
912.02.02 (Epoxy Waterproofing – Type 7, Grade 1, 2 or 3, Class D, E, or F)
909.03.5 (Epoxy Bedding Compound – Type 4, Grade 3, Class B or C)
919.07 (Epoxy Bonding Compound – Type 2, Grade 1 or 2, Class B or C)
919.11 (Epoxy Injection Material – Type 1 or 4, Grade 1, Class B or C)
ASTM C 881 Epoxy-Resin-Base Bonding Systems for Concrete

**PROCEDURE:**
A. **Manufacturer’s Request for Approval.**
   The Manufacturer shall request in writing for the approval of the product. The following information shall be included in the request:
   1. The name, address, and contact information for the manufacturer.
   2. The name, type, grade, class, and designation of product to be evaluated.
   3. The material specification sheet for the epoxy showing test results for the requirements of Table 1 of ASTM C 881.
   4. Materials Safety Data Sheet

   With the request, the manufacturer shall submit a sample of epoxy in the original cans for ME testing. For epoxy injection material, submit three (3) samples (cartridges) and supply the dispensing equipment (gun).

   Mail the request for approval and the sample 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.
The ME will review the test results submitted by the epoxy manufacturer for compliance with ASTM C 881. If the test results do not comply, the ME will reject the source for approval. If the test results comply, the ME will test the submitted sample for approval.

C. Bureau of Materials Laboratory Testing
The ME will perform testing according to ASTM C 881 on the sample submitted by the manufacturer. The ME will test the gel time, bond strength, absorption, and compressive yield strength. In addition, the ME will test the consistency for Grade 3 epoxies and the contact strength for Type 7 epoxies. For the source to be approved, the samples must meet the requirements in ASTM C881 for the Type, Grade, and Class of epoxy specified.

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 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 ASTM or AASTHO standards change, the ME may require requalification to ensure that the product meets the new specification.