



# Bureau of Materials Materials Approval Procedures

MAP Number: **113-15**

Effective Date: April 1, 2015

Approved By: Eileen Sheehy

## PROCEDURE FOR APPROVAL OF A NON-SHRINK GROUT

### **PURPOSE:**

To establish a procedure to approve a Non-Shrink Grout 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 (A) – Non-Shrink Grout  
ASTM C 1107 Standard Specification for Packaged Dry, Hydraulic - Cement Grout (Nonshrink)

### **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 of product to be evaluated.
3. The material specification sheet for the Non-Shrink Grout showing test results for the requirements of New Jersey Department of Transportation Standard Specifications for Road and Bridge Construction Sections 903.08.02 (A) and ASTM C 1107.
4. Please note the amount of water used must be the same on the bag, data sheets, and your letter requesting the product to be tested
5. The bag, data sheets, and your letter requesting the product to be tested must use the same terms that are listed in the current ASTM C-1107 and Section 3 of that ASTM.
6. Materials Data Safety Sheet

With the request, the manufacturer shall submit a 1-bag sample of the Non-Shrink Grout for ME testing. The bagged material must be the same as will be used in the field.

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 Non-Shrink Grout manufacturer for compliance with the New Jersey Department of Transportation Standard Specifications for Road and Bridge Construction Section 903.08.02 (A) and ASTM 1107. 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 on the sample submitted by the manufacturer according to New Jersey Department of Transportation Standard Specifications for Road and Bridge Construction Section 903.08.02(A) and ASTM C 1107, except for the early age change test.

The following tests and conditions will be performed by the Bureau of Materials.

The ME will use the maximum water shown on the bag for a plastic condition of the non-shrink grout. The ME will mix the material for the entire 30 minutes to evaluate the useable working time. The ME will conduct all testing at the standard temperature (73° F).

The ME will run the following tests:

- Test #1 Consistency Tests –Fresh Mix and at 30 minutes
- Test #2 Compressive Test – Fresh Mix.
- Test #3 Height Change of Moist Cured Hardened Grout – Fresh Mix.

**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 Bureau of Materials will approve the product and source on a project to project basis based on the specifications for the project.

**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.