



Bureau of Materials Materials Approval Procedures

MAP Number: **132-15**

Effective Date: April 1, 2015

Approved By: Eileen Sheehy

PROCEDURE FOR APPROVAL OF ASPHALT RELEASE AGENTS.

PURPOSE:

To establish a procedure to approve asphalt release agents (ARA) for addition to the NJDOT Bureau of Materials Qualified Product List (QPL).

REFERENCES:

New Jersey Department of Transportation Standard Specifications for Road and Bridge Construction
Section 1009.02.

PROCEDURE:

A. National Transportation Product Evaluation Program (NTPEP).

Producers may request NJDOT evaluation once the product has been evaluated by NTPEP. Information on submittal procedures and testing cycles is available at www.ntpep.org. The product testing cycle must be totally complete prior to requesting approval.

B. Initial Request for Producer's Approval

The producer must request in writing for the approval of the product. Include the following information on the written request:

1. The name, address, and contact information for the producer.
2. The product name.
3. Statement that the asphalt release agent meets the requirements of Section 1009.02. in NJDOT 2007 Standard Specifications for Road and Bridge Construction.
4. Materials Safety Data Sheet for the product.
5. NTPEP product identification and evaluation results.

C. Evaluation

The New Jersey Dept. of Transportation Bureau of Materials will evaluate NTPEP test results for conformance with the Materials Requirements listed below. If approved for Departments use, the product will be added to the QPL.

Mail the request for approval 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

D. Material Requirements

All testing of asphalt release agents must be in accordance with the NTPEP practices. Laboratory testing will evaluate asphalt release agents susceptibility to the following:

1. Stripping of asphalt from aggregates in truck beds and on other paving equipment when using asphalt release agents.
2. Adherence of an HMA mixture to the bed of haul trucks or paving equipment when using asphalt release agents.
3. Adherence of an asphalt binder to plant and paving equipment, rakes, shovels, etc. when using asphalt release agents.

Asphalt release agents must meet the testing requirements listed below:

1. **7 Day Asphalt Stripping Test:** No stripping or discoloration occurred when using full strength and diluted strength ARA solutions.
2. **Mixture Slide Test:** A maximum of 10 grams of HMA mixture adhering to the metal plate after three tests.
3. **Asphalt Performance Test:** Able to pull the cooled binder from the metal plate without adherence a minimum of three pours.

Disqualification:

1. **Changes in Material.** The Department may at any time sample material from the projects for evaluation. If the material does not meet Specifications or if test results are substantially different from the original NTPEP test results, NJDOT may remove the material from the QPL.
2. **Complaints.** NJDOT will evaluate reports of poor performance of the product by Department users and will remove from the QPL products that displayed unacceptable performance in the field.

Requalification

The requalification process is identical to the initial approval process. The producer may resubmit disqualified products for evaluation after completion of a new NTPEP testing cycle.