

MARYLAND STATE HIGHWAY ADMINISTRATION
OFFICE OF MATERIALS TECHNOLOGY
7450 Traffic Drive, Building #4
Hanover, MD 21076

**PROCEDURE FOR THE QUALIFICATION OF
JOINT SEALANT AND CRACK FILLER**

The Maryland State Highway Administration (SHA) maintains a list of qualified Joint Sealants and Crack Fillers (JS/CF). These materials shall conform to the attached copy of [911.01](#), SHA Standard Specifications for Construction and Materials.

In order to qualify for this Category:

1. The manufacturer places the candidate material on a test deck of the National Transportation Evaluation Program (NTPEP) <http://www.ntpep.org>. NTPEP qualification requirements are listed in the online NTPEP JS/CF User Guide.
2. The NTPEP test results, both field and laboratory, are compared to Maryland specification.
3. Upon satisfactory review of NTPEP data and Safety Data Sheet evaluations, the manufacturer of the material will be notified of the acceptable NTPEP product evaluation code(s).

The material manufacturer must then visit Maryland's Product Evaluation listing (MPEL) located at <http://apps.roads.maryland.gov/MPEL/> and select VENDOR REGISTRATION to begin the process.

When your registration has been accepted, you will receive an email requesting you to submit the following documentation into MPEL:

1. NTPEP Evaluation code
2. NTPEP Field Testing Criteria
3. Starting Test date

Upon satisfactory review of the final NTPEP data and SDS evaluation, the manufacturer of the material will be notified of the acceptable NTPEP product evaluation code.

SHA limits qualification to three (3) products per manufacturer for this category.

All products approved are required to continue to meet the specifications. Any time your product is not in compliance with contract requirements or specifications, this material will be subject to rejection whether in place or not.

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To Maintain Approval for Joint Sealant and Crack Filler

Current products listed on the Qualified Products List (QPL) will remain approved, provided that formulation and test results have not changed or been altered from the original northern NTPEP Product ID submittal. All Joint Sealant and Crack Filler materials shall be evaluated by NTPEP every six (6) years with test results submitted to MD SHA for recertification purposes.

Maryland reserves the right to withdraw any product from the QPL when unsatisfactory performance is exhibited.

If you have any questions or require additional information, please contact Ms. Gloria Burke at 443-386-9266 or gburke@sha.state.md.us She will be happy to assist you.

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**PROCEDURE FOR QUALIFICATION OF
COLD PATCH MATERIAL (CPM)**

The Maryland State Highway Administration (SHA) maintains a Qualified Products List (QPL) which includes Cold Patch Material (CPM). CPM shall conform to the attached CPM Special Provision.

If you are interested in having your product qualified, please visit [Maryland's Product Evaluation Listing \(MPEL\)](#) and then select VENDOR REGISTRATION to begin the process.

When your registration has been accepted, you will receive an email requesting you to submit the following information into MPEL:

1. Certification stating the manufacturer's name, product name, statement that the material has been tested and found in conformity with specification requirements.
2. Material Safety Data Sheet for the particular product.
3. CPM is approved through manufacturer's certification; however, SHA reserves the right to take independent samples to confirm specification compliance.

SHA limits qualification to two (2) products per manufacturer for this category.

All approvals are made subject to continuing production of materials performing in the field. Materials used on the basis of Certificates of Compliance may be sampled and tested after qualification. At any time your product is not in compliance with contract requirements or specifications, this material will be subject to rejection whether in place or not.

The State Highway Administration must be informed immediately of any changes in the formulation of the product. Once SHA is notified, new sample (s) must be submitted along with the aforementioned information.

Materials/Products representing revised formulations/standards of currently approved Qualified Products will not be accepted for testing within six (6) months of the most recent evaluation, unless requested by SHA.

Materials/Products evaluated and not accepted, are not eligible for resubmission within six (6) months of the most recent examinations, unless requested by the SHA.

Producers are required to recertify their products every 5 years in order to remain on SHA's QPL beginning February 2015. A cost reimbursement of \$165.00 per product will be applied for the Recertification process. Products approved within 36 months of the Recertification Date are exempt.

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MATERIAL TESTING AND EVALUATION

Dear Customer:

The Office of Materials Technology has a schedule of cost reimbursement for the evaluation of materials to be placed on our Qualified Products List.

The submitted sample and related information (**Data Sheet, MSDS, and quality control data**) may be forwarded to the following:

Office of Materials Technology
7450 Traffic Drive, Building #4
Hanover, MD 21076
ATTN: Mr. Rodney Wynn

A cost reimbursement of **\$489.17** per product will be applied for the evaluation of **Cold Patch Material (CPM)**. No review will begin until verification of payment is received by the State Highway Administration Cashier's Office.

Please complete the attached form and return it along with a Cashier's Check made payable to the Maryland State Highway Administration. The form and check should be mailed to the following:

Cashier's Office
P.O. Box 1636
Baltimore, MD 21203

If you have any questions, please contact Rodney Wynn at 443-572-5043, or via email at rwynn@sha.state.md.us

Sincerely,

Rodney Wynn, Team Leader
New Products and Research

cc: Asphalt Binder Team Leader

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Cashier's Office
P.O. Box 1636
Baltimore, MD 21203

AW176M2G

Attention Cashier:

This cost reimbursement covers the processing and testing for the qualification of materials. Verification of payment is required before any testing will be performed. The Office of Materials Technology will do all testing. Please submit a copy of payment verification into MPEL.

*** Please include all certified results and temperature requirements for tests performed by your accredited testing agency.**

MATERIAL: Product Name (I.D.)

TESTS AND SPECIFICATION REVIEW:

TOTAL COST REIMBURSEMENT PER PRODUCT: \$489.17 (Cost reimbursement includes Processing and Handling)

NAME: _____

**PRODUCT
NAME:** _____

COMPANY: _____

ADDRESS: _____

PHONE: _____



**CATEGORY 900
MATERIALS**

789 **DELETE**: SECTION 924 — RESERVED.

INSERT: The following.

SECTION 924 — COLD PATCH MATERIAL

924.01 DESCRIPTION. Cold Patch Material is a high performance asphalt patching material used to repair potholes, deteriorated concrete, and asphalt pavement in all seasons. The material shall be capable of making permanent repairs with minimal effort and with minimal affect on traffic.

Cold Patch Material is produced by an approved manufacturer using specially formulated binders. The material may be produced in bulk and stockpiled or packaged in buckets or bags weighing 40 to 50 pounds, or packaged as approved. Select from the Qualified Products List (QPL).

924.02 MATERIALS.

Aggregates	M 29 T 11 T 2
Binder	D244 D402 T 59 T 78

924.02.01 Binder. Binder shall provide aggregate coverage per TP 40. No additives, modifiers, or extra ingredients are to be introduced into the liquid oil blend after shipment. Binder shall meet a maximum of 0.1 percent volume by weight of the original sample when tested to 500 F (260 degrees C) per T 59 or, the binder shall contain no more than 6.0 milliliters of oil distillate when tested per D244, D402 or T 78, depending on the type of binder used. The residual binder content shall be a minimum of 5 percent of the mix.

924.03 MIX PERFORMANCE REQUIREMENTS. Cold Patch Material patches shall remain in place when paved over and shall not adversely affect the final surface. The material shall not require primer or tack and shall be compatible with asphalt and/or concrete at a minimum thickness of 1/2 inch. The material must be capable of filling potholes in wet or dry conditions in ambient temperatures as low as to 5 F and up to 100 F.

The material shall permanently adhere to deteriorated concrete or bituminous pavement until the surrounding pavement fails. Removal shall not be required when the surface is overlaid with



asphalt. Replace actual volumes used at no additional cost if the patch material fails to perform as certified.

924.03.01 Storage. Cold Patch Material furnished in bags or containers shall be stored in accordance with the manufacturer's recommendations. The material may also be furnished from stockpiled material that has been stored outside, uncovered, without drying or clumping. The stockpile shall not leach or strip. A product guarantee is required stating that the material remains workable in an uncovered stockpile of 100 tons or more for a period of not less than twelve months.

924.03.02 Usage. Cold Patch Material shall be uniformly mixed and require no mixing prior to use. The material shall be capable of being poured or shoveled into a hole. The material shall require minimal pothole preparation consisting of removing water and debris from the pothole. The material shall be capable of displacing any water remaining in the hole. The material shall be placed and compacted in accordance with the manufacturer's recommendations. The material shall not ravel nor adhere to tires when opened to traffic.

924.03.03 Quality Control Plan. Provide a Quality Control Plan (QCP) that includes the following:

- (a) Description of Material.
- (b) Contact Personnel.
- (c) Safety Data Sheets (SDS).
- (d) Technical Data Sheets, including VOC content.
- (e) Job Mix Formula.
- (f) QC Material Sampling Process.
- (g) Storage Requirements.

The QCP shall also state that if a test result indicates that a shipment is not in compliance with specifications, the following shall apply.

- (a) Immediately notify the Administration of the shipment in question,
- (b) Identify the material,
- (c) Cease shipment until material complies with specifications;
- (d) Notify the Administration prior to resuming shipment, and



- (e) Implement any mutually agreed upon procedures for the disposition of the material.

In the event a mutual agreement is not obtained, the Administration shall have final authority in the decision on specification compliance.

924.04 CERTIFICATION. Provide certification that the material meets requirements per TC 1.03 and the following:

- (a) A guarantee the material conforms to the Materials, Binder, Mix Performance and Storage requirements and COMAR environmental regulations.
- (b) Employ an unaffiliated AASHTO-accredited laboratory to perform all testing for certification.

Non-conforming materials will be rejected whether in-place or not, as determined. Remove all inventory on hand that fails to meet requirements and replace at no additional cost. Cold Patch Material that consistently fails to meet requirements will be removed from the QPL.