

## **MnDOT Hot Pour Joint and Crack Sealer Qualification Requirements MnDOT Specifications 3719, 3723, and 3725**

April 25, 2008 (revised August 3, 2020)

This submittal procedure describes the requirements and process used to evaluate hot pour joint and crack sealers for consideration of inclusion on the MnDOT Approved Products List (APL). All hot pour joint and crack sealers used on MnDOT, State Aid, and Federal Aid projects must be selected from MnDOT's (APL).

Send a personalized submittal package to:

Allen Gallistel  
MnDOT Office of Materials and Road Research  
Chemical Lab Director  
1400 Gervais Ave.  
Maplewood, MN 55109

Telephone: 651-366-5545  
[allen.gallistel@state.mn.us](mailto:allen.gallistel@state.mn.us)

Submittal package should include:

- Completed New Products Application Form
- Manufacturer contact name, address, phone number and email address
- Product Data Sheets on all components including application directions
- Safety Data Sheets on all components
- Performance History References in a cold climate
- Certification that products meet Minnesota Statute 115A.9651 requirements for heavy metals
- List of location for any field trials where your product is being evaluated
- List of state DOT Qualified Products Lists that lists your product
- One (1) manufactured lot sample. Sample shall be taken from production lot. Include the name and address of the manufacturing facility, date of manufacturer and lot number.
- Complete MnDOT Office of Environmental Services Hazardous Evaluation Process

As part of the approval process, a planned field evaluation will be required. If the manufacturer has participated in a cold climate NTPEP Crack Sealer Evaluation, submit the NTPEP data with the submittal package. If no cold climate NTPEP crack sealant evaluation is available, MnDOT may request NTPEP participation or have the submitter place a test section for internal field evaluation.

A provisional approval will be granted after the first winter in service if satisfactory performance is observed and remain in place pending the three-year field evaluation by NTPEP or on the Minnesota test section. Provisional approval allows for a product to be used as long as satisfactory performance is observed and will be withdrawn if reasons for any failures cannot be determined. The product will be given full approval after a successful three-year NTPEP/MnDOT field evaluation.

The product will continue to remain on the (APL) in successive years provided it continues to perform satisfactorily for the expected life of that product. Any change in product formulation without MnDOT approval shall result in a product being removed from the (APL). MnDOT reserves the right to add additional tests at any time. In addition, MnDOT reserves the right to remove any manufacturer from the (APL) based on field performance as observed by MnDOT or by another agency.

## Acceptance and Use

The Minnesota Department of Transportation will accept hot pour joint and crack sealant only from MnDOT approved sources. This applies to all hot pour joint and crack sealant materials sold to contractors for use on MnDOT projects. The materials covered include Hot Poured Crumb Rubber Type sealant MnDOT 3719, Hot Poured Elastic Type sealant MnDOT 3723, and Hot Poured Extra-Low Modulus Type sealant MnDOT 3725.

To be accepted as a MnDOT Approved Source a manufacturer must demonstrate an ability to manufacture hot pour joint and crack sealant meeting the requirements of MnDOT Specifications and the manufacturer must:

- Conduct a MnDOT approved Quality Control Program
- Provide samples for verification for each lot supplied to MnDOT projects prior to use
- Provide manufacturers QC test results
- Supply shipping information
- Certify that their product meets the requirements of MnDOT Specifications
- Submit written agreement to this program

### A. Manufacturer Quality Control Program

A written Quality Control Program that monitors a manufacturer's production shall be submitted for MnDOT approval. The written program shall detail the frequency and types of tests performed on each lot produced for MnDOT projects as well as raw materials where appropriate.

### B. Verification Samples

Manufacturer shall submit samples of each batch or lot manufactured for use on MnDOT projects to the MnDOT Chemical Laboratory along with a certification stating that the sample is representative of the batch manufactured will be sent with the sample. Samples shall be tested prior to shipping of materials.

### C. Testing

Tests will be performed according to ASTM Standards, Federal Test Methods, or MnDOT Methods as detailed in the MnDOT product specification. Other test methods may be used upon approval by MnDOT. Testing frequency shall be according to manufacturers approved QC Plan. Test results on finished batches shall be submitted to the MnDOT Laboratory along with name and address of purchaser. Discrepancies in test results between manufacturer's lab and the MnDOT lab that indicate significant deviation from MnDOT specifications, which cannot be resolved, may result in removal of a manufacturer from the Approved Source List.

### D. Certification

Each shipment shall be accompanied by manufacturer's written certification listing batch number, quantity and certifying that the product meets the appropriate MnDOT specifications. A copy of the certification shall be submitted to the MnDOT Lab.

Non-compliance to the provisions may result in removing a manufacturer from the approved list.

Samples, test data, certifications and shipping information shall be sent to:

Minnesota DOT  
Attention: Allen Gallistel  
1400 Gervais Ave.  
Maplewood, MN 55109

Tel. (651) 366-5545  
Fax (651) 366-5515

[allen.gallistel@state.mn.us](mailto:allen.gallistel@state.mn.us)

**State of Minnesota**  
**Department of Transportation**  
**New Product Preliminary Information Form**

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INSTRUCTIONS: Answer ALL questions. Where a question is not applicable enter "N/A".  
Attach additional sheet(s) as required with reference to item number.  
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Date: \_\_\_\_\_

1. Trade Name \_\_\_\_\_

Manufacturer \_\_\_\_\_

Phone No. (\_\_\_\_\_) \_\_\_\_\_

Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Patent pending Yes \_\_\_\_ No \_\_\_\_ Patent No. \_\_\_\_\_

2. Local Distributor \_\_\_\_\_ Phone No. (\_\_\_\_\_) \_\_\_\_\_

Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

3. Recommended Primary  
Use: \_\_\_\_\_  
\_\_\_\_\_

4. Describe product, material equipment or process:  
\_\_\_\_\_

5. Describe any limitations or use restrictions:  
\_\_\_\_\_  
\_\_\_\_\_

6. Material composition (attach laboratory test results, storage requirement, shelf life,  
Material Safety Data Sheet and disposal procedure):  
\_\_\_\_\_  
\_\_\_\_\_

7. Outstanding feature or advantage claimed:  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

8. Date introduced on market \_\_\_\_\_. Alternate for what existing product?  
\_\_\_\_\_

9. a. Total Estimated Cost Per Unit Material (including delivery) \_\_\_\_\_  
b. Total Estimated Cost Per Unit Furnished and Installed \_\_\_\_\_

10. Does product meet requirements of any of the following specifications?  
(Give specific number.)  
AASHTO \_\_\_\_\_ ASTM \_\_\_\_\_ Fed. Spec. \_\_\_\_\_ Mn/DOT \_\_\_\_\_  
Others (state and attach specifications) \_\_\_\_\_

11. Indicate whether this product has been evaluated by a national or regional product  
evaluation program? (Attach any results.)

\_\_\_\_\_ HITEC \_\_\_\_\_ NTPEP \_\_\_\_\_ Others (specify)

12. Cite use by other agencies and persons to be contacted concerning experience with use,  
including how many years used, and whether use has been experimental or routine (list  
names, titles, mailing address and phones):

\_\_\_\_\_  
\_\_\_\_\_

13. Note here and attach any test results, reports, etc., from the organizations above:

\_\_\_\_\_  
\_\_\_\_\_

14. Is a documented quality control process available for this product?

\_\_\_\_\_  
\_\_\_\_\_

15. Who has been contacted within Mn/DOT about this product? \_\_\_\_\_

\_\_\_\_\_

Has this person been sent a copy of this form? \_\_\_\_\_

16. Additional comments: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

Name and Title of person completing this form:

\_\_\_\_\_  
Address, State, Zip:

\_\_\_\_\_

Date: \_\_\_\_\_ Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

Email Address: \_\_\_\_\_

\_\_\_\_\_ Manufacturer \_\_\_\_\_ Representative

1/23/2020

## Technical Overview: Hazard Evaluation Process (HEP) Policy OP010

The MnDOT Office of Environmental Stewardship developed the Hazard Evaluation Process (HEP) as a tool to determine potential environmental impacts that could result from use of a product and consequently, if the product is acceptable for use on MnDOT infrastructure. The following information must be submitted by the vendor in order for MnDOT to complete the HEP:

1. Vendor information
  - a. Name of company
  - b. Address
  - c. Technical contact name and telephone number
  - d. Application date
  - e. Product trade name
  - f. Product chemical name
  - g. Product data sheet
2. Provide Safety Data Sheets (SDS) for all chemicals in the product/waste material.
3. Regulatory approvals and status:
  - a. Licenses
  - b. Approvals
  - c. Permits
  - d. TSCA Listing
4. Chemical Status:
  - a. Provide individual chemical & physical properties (EPA Methods 830.7200, 830.7220, 830.7840, 830.6317, 830.7370, 830.7570, 830.7950, 835.1230, and 835.2130 or equivalent methods);
  - b. Identify chemicals with molecular weights greater than 1000 Daltons (OECD Methods 118, 120 or equivalent);
  - c. Proof that final product would not be considered a hazardous waste under Minnesota Rules Chapter 7045 if disposed of unused;
  - d. Names and Chemical Abstract Numbers (CAS numbers) of the reportable substances in the product (40 CFR 302);

The following product-specific information must be submitted if known. If information for a representative test is unknown it must be stated as such.

- U.S. EPA [SW-846 test method](#) information
- [OECD product test method](#) information
- U.S. EPA Office of Chemical Safety and Pollution Prevention [Harmonized Test Guidelines](#):
  - Leach test results (EPA Method 1312 with subsequent analysis for test substance or equivalent method);
  - Biodegradation (EPA Method 835.3110, 835.3190, 835.3215, 835.3300, 835.4100 or equivalent method);
  - Ecotoxicity to include three trophic levels (EPA Method 850.1300, 850.1400, 850.4100, 850.4150, 850.5400, and 850.6200 or equivalent method);
  - Other available test data that provide individual chemical fate, exposure and pathway information.