

MnDOT Silicone Joint Sealant Qualification Requirements
MnDOT Specification 3722
February 3, 2011

This submittal procedure describes the requirements and process used to evaluate silicone joint sealants for consideration of inclusion on the MnDOT Silicone Joint Sealant Qualified Product List (QPL). All joint sealers used on MnDOT, State Aid, and Federal Aid projects must be selected from MnDOT's QPL.

Send a personalized submittal package to:

Allen Gallistel
MnDOT Office of Materials and Road Research
1400 Gervais Avenue
Maplewood, MN 55109
Telephone: 651-366-5545
allen.gallistel@state.mn.us

Submittal package should include:

- Completed New Products Application Form (attached)
- Manufacturer contact name, address, phone number and email address
- Product Data Sheets on all components including application directions
- Material 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 locations for any field trials where your product is being evaluated
- List of state DOT Qualified Products Lists that lists your product
- Supply two-quart size tubes, or equivalent, of sealant material for laboratory evaluation from the same lot or batch number of the material used for the field evaluation. Include the name and address of the manufacturing facility, date of manufacturer and lot number.
- Complete MnDOT Office of Environmental Services Hazardous Evaluation Process (attached)

If the manufacturer has participated in a NTPEP Joint Sealer Evaluation, submit the NTPEP data with the submittal package. If no NTPEP joint sealant evaluation is available, a provisional approval may be granted pending a three-year field evaluation on a Minnesota project. The manufacturer is limited to installing the product on only one project during the field evaluation period. The product will be given full approval after a successful three-year field evaluation. The product will continue to remain on the (QPL) 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 (QPL). 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.

State of Minnesota
Department of Transportation
New Product Preliminary Information Form

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

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

Mn/DOT Office of Environmental Services
Hazardous Evaluation Process

The Mn/DOT Office of Environmental Services 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 Mn/DOT infrastructure. The following information must be submitted by the vendor in order for Mn/DOT 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 Material Safety Data Sheets for all chemicals in the product/waste material.
3. Regulatory Approvals & Status:
 - a. Licenses
 - b. Approval
 - c. Permits
 - d. TSCA Listing
4. Chemical Status:
 - a. Provide Individual Chemical & Physical Properties (OECD¹ Methods 102, 103, 104, 105, 111, 112, 113, 117, 121);
 - b. Identify chemicals with molecular weights greater than 1000 Daltons (OECD Methods 118, 120 or equivalent);
 - c. Certification 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.

EPA SW-846 test method information can be found at:

<http://www.epa.gov/epaoswer/hazwaste/test/main.htm>

OECD product test method information can be found at:

<http://www.oecd-ilibrary.org/>

U.S. EPA Office of Prevention, Pesticides and Toxic Substances Harmonized Test Guidelines can be found at: <http://www.epa.gov/ocspp/pubs/frs/home/guidelin.htm>

- a. Leach test results (EPA Method 1311 and OECD Method 312 with subsequent analysis for test substance or equivalent method);
- b. Biodegradation (OECD Method 301C, 301D, 302C, 304A, 307, 309 or equivalent method);
- c. Ecotoxicity to include three trophic levels (OECD Method 201, 207, 208, 210, 211 or equivalent method, OPPTS Method 850.5400, 850.1300, 850.6200, 850.4100, 850.4150, 850.1400 or equivalent method);
- d. Other available test data that provide individual chemical fate, exposure and pathway information.

¹ Organization for Economic Co-operation and Development methodology for product testing is preferred but equivalent methods may be acceptable.

Questions regarding the Mn/DOT Hazard Evaluation Process can be sent to:

Robert.Edstrom@state.mn.us