

**New Hampshire Department of Transportation
Bureau of Materials & Research**

Qualified Products List – Qualification Criteria

Section 616 – Traffic Signals

A. SAW CUT LOOP SEALANT

Specification – NHDOT Standard Specifications for Road and Bridge Construction, Section 616

Saw cut loop sealant products shall be 1 or 2-component, polyester-based, pourable, cold-applied, flexible, embedding sealants.

Products will not be considered if they –

- Are dispensed from tubes / caulking guns.
- Require an initial bead of sealant prior to placing the wire in the trough.
- Require conduit or backer rod as part of the installation process.

Only products that conform to the submission and test requirements of this document will be considered for field testing and approval.

Required Submissions

QPL Product Submittal Form

The QPL Product Submittal Form must be completely filled out and must be the current, on-line version of the form. The form can be obtained at www.nh.gov/dot/research.

Product Literature

Submit all product literature, including technical data sheets relevant to the material's use, limitations, material properties, storage, mixing, application / installation, and precautions, as applicable.

SDS / MSDS

Submit complete SDS / MSDS information for the product.

Lab Test Results

The submitted test results must be from either a State transportation agency laboratory or appropriately qualified independent laboratory, demonstrating the product meets the applicable specifications herein.

Documentation of test results must be on the testing laboratory's letterhead. Qualifications of the independent laboratory must also be submitted for review.

Letters of Compliance

Submit a notarized letter on the manufacturer's letterhead affirming that the product meets all requirements described herein.

Submit certification on the manufacturer's letterhead affirming that the product meets all Federal and Local requirements for volatile organic compound (VOC) limits.

Qualification Criteria

The Department will review submitted lab test results and documentation to verify conformance with all requirements in this document which includes those listed in the following table.

NH DOT Test Requirements for Saw Cut Loop Sealant		
Property	Test Method	Required Value
Elongation (%)	ASTM D638	10-30%
Hardness	ASTM D2240	Shore D, 50-80
Shelf Life	---	≥ 1 year (unopened container)
Tack – Free / Traffic Ready Time	---	≤ 30 min. @ 77° F
Temperature For Application (Substrate)	---	≥ 35° F
Viscosity	Brookfield Viscometer	2,000 – 8,000 cP

Field Trial

Contingent upon meeting the above requirements, a field trial of the product will be conducted in late summer / early fall. The duration of the field trial will last approximately 8 months from start to finish, including a late winter and spring evaluation of the product. Product approval will be based upon the results of the field trial.

When requested, the manufacturer will provide product in containers that are labeled and packaged for general purchase. Unsolicited samples will not be accepted. Product installation for the field trial will be conducted by Department forces if available. If they are not available, the manufacturer may be asked to perform the installation.

The product shall exhibit the following properties during installation and through a field trial:

- Flows well enough to fully encapsulate loop wires.
- Is self-leveling.
- Fully bonds to pavement.
- Cohesion within the product is complete.
- Tack – free / traffic ready time: ≤ 30 minutes.
- Good performance following exposure to typical winter elements and snow plowing (no bond or cohesion failures).

The product will be deemed “approved” upon successful field trial performance. Approved products will remain on the QPL for a period of 5 years at which time the product data will be reviewed to confirm the product hasn't changed.

Product Packaging

The container label of the delivered products will clearly show the product name, manufacturer name, and batch, lot, or other identifier for the product. It will also show the date of manufacture and shelf life, and/or expiration date.

July 17, 2017

Department Notification of Changes to Currently Approved Saw Cut Loop Sealant Product

Manufacturers are required to notify the Department Product Evaluation Unit if there has been a change to either of the following:

- Product Name
- Manufacturer

In either of these cases, forward notarized certification that the product application, properties, formulation, and performance of the previously approved product have not changed.

Product Formulation Changes

Manufacturers are required to notify the Department Product Evaluation Unit of formulation changes to an "already-approved" product. When the formulation changes, products are considered a "new" product, and will be removed from the QPL until resubmitted and re-evaluated.

Qualification Criteria Approved by:



Chief of Materials Technology, Bureau of Materials & Research



Administrator, Bureau of Materials & Research

The Department continues to evaluate its qualification criteria as well as products that have been qualified against them, and reserves the right to revise the criteria and/or withdraw product qualification at any time for any reason without notice.

Qualification of a product does not constitute an endorsement of the product, nor does it imply intent to purchase or specify the product.