

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

Qualified Products List – Qualification Criteria

Section 562 – Silicone Joint Sealant

A. ITEM 562.1 - SILICONE JOINT SEALANT (TYPE NS (NON-SAG), FOR VERTICAL AND HORIZONTAL JOINTS)

B. ITEM 562.1 - SILICONE JOINT SEALANT (TYPE SL (SELF-LEVELING), FOR HORIZONTAL JOINTS)

Specification – 2010 NHDOT Standard Specifications for Road and Bridge Construction, Section 562

Silicone joint sealant shall meet the requirements of ASTM D 5893 and shall be a product listed on the Qualified Products List. Silicone joint sealant for horizontal joints shall be either Type NS (Non-Sag) or Type SL (Self-Leveling). Silicone joint sealant for vertical joints shall be Type NS (Non-Sag).

Silicone joint sealants shall be concrete gray in color.

Required Submissions

QPL Product Submittal Form

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

Product Literature

Submit any product literature that is relevant to evaluation of the product.

Letter of Compliance

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

MSDS

Submit complete MSDS information for the submitted product

Test Results

Submit test results from an independent lab, demonstrating that all specification requirements are met. If the manufacturer recommends the use of a primer, the test results shall clearly indicate what primer was used so that it can be listed for use in conjunction with the sealant. The qualifications of the independent lab must also be submitted for review. Alternatively, laboratory test results from another State transportation agency or the AASHTO National Transportation Product Evaluation Program (NTPEP) showing conformance with ASTM D5893 may be submitted.

Qualification Criteria

Documentation

The Department will review submitted documentation to assure conformance with the specifications.

Field Trial

Upon verification of specification conformance, a field trial will be required. The Department will allow the sealer to be applied on a project as an alternative to a currently qualified sealant. This application could occur on a project being conducted under contract or by NHDOT maintenance forces. Although the Department will arrange for this field trial, the manufacturer is responsible for coordinating with the contractor or NHDOT maintenance forces as to schedule and supply of material.

The manufacturer shall be present for this trial application and shall verify that the product is installed in accordance with NHDOT specifications and manufacturer's published installation procedures.

The manufacturer shall notify the Bureau of Materials & Research at least 1 week prior to the scheduled field trial so that staff can be present to evaluate the product application.

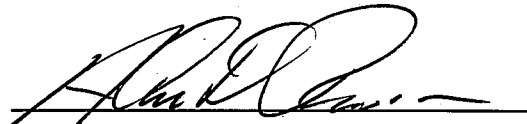
Following a one-year trial period, the sealant performance will be evaluated. Characteristics of particular concern include the sealant's bond to concrete surfaces and ability to resist cracking.

Upon successful completion of the one-year trial period, general use of the product may be allowed on a provisional basis for one year. The product will not appear on the Qualified Products List during the provisional period. Instead, a letter will be provided to the manufacturer explaining that provisional use is being allowed for the specified period of time.

A final review of product performance will be conducted at the completion of the second year. If product performance has been acceptable, the product may be added to the next issue of the Qualified Products List.

Following a two-year trial period, the sealer application and performance will be evaluated for qualification.

Qualification Criteria Approved by:



Administrator, Bureau of Materials & Research

Qualification Criteria Accepted by:



FHWA, NH Division

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.