

Standard Guidelines for Product Review
STRUCTURAL STEEL CAULKING;

Section 00594.12

October 20, 2008

00594.12 – Structural Steel Caulking

ODOT keeps a list of caulking products on the Qualified Products List (QPL). This is used to make seams in the structural steel watertight. To have your product evaluated for inclusion on the QPL, you must show compliance with the specifications listed below.

Specifications:

- ASTM C920 (Elastomeric Joint Sealants):
 - Type S (Single Component)
 - Grade NS (Non Sag)
 - Class 25 (or greater)
 - Designed for Use M (Mortar), A (Aluminum), G (Glass), & O (Other – Bare Steel and Polyurethane Coatings)
- ASTM C510 (Stain and Color Change): no visible change allowed
- ASTM C679 (Tack Free Time): maximum 8 hours.
- ASTM C793 (Accelerated Weathering): UV Test = #0 (no cracking) and Bend Test = #2 or less.
- ASTM C794 (Adhesion-in-peel): minimum 5 lbs/lineal inch and maximum 25% adhesion failure. This test should be done without primer, even if your installation instructions require a primer.

The manufacturer shall certify (or show in their installation instructions) that the sealant is:

- Paintable
- Applicable in 40 to 100 degree (F) temperatures.
- Approved by the coating manufacture on paint projects.
- Able to bond to clean bare steel and polyurethane coated metal without the use of a primer.

To apply for inclusion on the QPL, submit the following:

- [Preliminary information for Product Evaluation Form](#)
- Independent test results showing compliance with specs listed above.
- Legible copy of the MSDS.
- Spec data sheet.
- Detailed installation instructions.
- List of limitations and precautions.

Once the product demonstrates acceptable performance on coated steel surfaces exposed to the weather, it will be placed on the Conditional List for a period of two years.

Submit documentation to:

Oregon DOT – Product Evaluation Coordinator

800 Airport Road SE

Salem OR 97301-4798

<http://www.oregon.gov/ODOT/HWY/CONSTRUCTION/QPL/QPIndex.shtml>

Please send no samples at this time.