

Standard Guidelines for Product Review

Elastomeric Concrete;

Section 00584.10

August 27, 2008

00584.10 – Elastomeric Concrete

ODOT maintains a list of approved “Elastomeric Concrete” for Bridges on the Qualified Products List (QPL). Elastomeric Concrete is material used to form a watertight bulkhead at bridge ends or at expansion joints. It is a multi-component binder-base material designed to provide a tough, yet flexible header that will withstand repeated impacts from motorists and truckers. It provides the mechanism that bonds the joint material to the roadway substrate. It should be suitable for use with concrete or asphalt substrates, or steel armor corners. It should be suitable for use with a variety of joint materials, including silicone, poured filler, neoprene compression seals, and polyfoam compression seals. All Elastomeric Concrete products shall be capable of withstanding vibrations and / or movement of the bridge during and after cure.

Initially, each manufacturer submits documentation, independent test reports, and samples for each product they wish to have listed on the QPL. Upon acceptance and placement onto the QPL, the product then becomes available for use on upcoming projects for the category listed, but on-site support, certification, and warranties are required for each project the elastomeric concrete is proposed for use on.

Product Name: _____

To Submit a Product:

Review sections 00584, 00585, and 02440 of the [Standard Specifications](#) and [Standard Drawings](#) to make sure you meet our other requirements.

Provide the following for QPL Evaluation:

- Submit a completed copy of the [Preliminary Information for Product Evaluation Form](#).
- Include a signed copy of the attached Spec / Warranty Acceptance Statement.
- Furnish a current list of 5 recent projects utilizing the same type of elastomeric concrete being submitted. Include names and contact information for the owner of the project.
- Submit 7 copies of Brochures, and Product Literature.
- Certification that all products supplied to us with this product name will be chemically and physically identical to that which was originally submitted.
- Recommended Mix Design, if this is mixed in the field.
- Independent Test Results showing compliance with Specs listed below.
- Legible copy of the MSDS.
- Detailed installation instructions.
- List of Limitations and Precautions.

Standard Guidelines for Product Review

Elastomeric Concrete;

Section 00584.10

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- Quality Control Program (QC) – furnish 3 copies. You must have a current QC program.
- Submit 2 fully cured samples approximately 1" x 1" x 2" long.
- Provide 3 copies of independent test reports that show compliance with the material requirements shown in the Specs. Must be clear, concise, and meet our requirements.

Submittal Material Requirements

You are urged to review the specifications for this product as shown in Section 00584, 00585 and 02440 of our Specifications located at: <http://www.oregon.gov/ODOT/HWY/SPECS/>. Our entire specification for Elastomeric Concrete is shown there. This document only lists the specifications and test results you will need to submit in order to be considered for placement on the QPL.

1. Elastomeric Concrete –

- A. Neat Compressive Strength (ASTM D395): 2000 psi minimum.
- B. Neat Elongation (ASTM D412 / D695): 200% minimum
- C. Neat Tensile Strength (ASTM D412 / D638): 750 psi minimum
- D. Bond Strength, Steel: 250 psi minimum
- E. Bond Strength, Wet Concrete: 200 psi @ 7 days
- F. Minimum Time to Traffic (Manufacturer's Recommendations): 3 hours max
- G. The material must be compatible with substrate materials that we use, like steel, concrete and asphalt substrates and joint materials used like silicone, hot poured fillers, neoprene compression seals, and polyfoam compression seals.
- H. You must be willing to furnish a Manufacturer's representative to be present on each project during the installation of the elastomeric concrete. One of the responsibilities of this representative will be to make sure the material is installed in a warrantable manner. The Manufacturer's representative must be independent of the Contractor's work force or display proof that they are certified to install warranted materials from the Manufacturer.
- I. Must furnish a job specific 2 year manufacturer's warranty that the elastomeric concrete will not delaminate, debond, rut, or otherwise fail to perform for two years.

Submit documentation and submittal forms to:

Oregon DOT - Product Evaluation Coordinator
Oregon DOT Materials Lab
800 Airport Road SE
Salem OR 97301-4798

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

Standard Guidelines for Product Review

Elastomeric Concrete;

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Specs / Warranty Acceptance Statement

I certify that we have reviewed the Oregon Department of Transportation (ODOT) Specifications for Elastomeric Concrete and declare that our product meets those specifications and is suitable for these applications.

We understand that these Specifications require the manufacturer to furnish a warranty for installations using these products.

We understand that approving these Specifications is critical for our product to be used in Oregon, because of the requirements that it imposes on us.

We further understand that these Specifications may change over time and that it is our responsibility to watch the Specifications on each project to ensure that we can still support the requirements.

Product Name: _____

Yes, we can support the specifications for Elastomeric Concrete.

No, we can not support these specifications for Elastomeric Concrete.

Comments: _____

By: (Company Representative) _____

Company Name: _____

Address: _____

Phone: _____ Date: _____

(Use Manufacturer's Letterhead)

Warranty Statement (Submit to Contractor with each project)

Warranty for Elastomeric Concrete: Installation Acceptance Date: _____

ODOT Contract # _____ Bridge # _____

Project Name: _____

Contractor: _____

Hwy and MP: _____

Manufacturer: _____

Manufacturer Contact / Phone: _____

Manufacturer Address: _____

Product Name: _____

The elastomeric concrete placed on the above referenced project was completed using the product listed above and is warranted in accordance with the ODOT contract requirement and as follows: Upon written notification by the Agency, that the elastomeric concrete, or portions of the elastomeric concrete, used according to the manufacturer's recommendations, have failed, the manufacturer will replace the elastomeric concrete or portions of the elastomeric concrete, within 6 months of the Agency's written notification.

If the manufacturer fails to replace the elastomeric concrete or portions of the elastomeric concrete within the given 6 month period the agency at its discretion will replace the elastomeric concrete or portions of the elastomeric concrete, or have the elastomeric concrete or portions of the elastomeric concrete replaced by an independent contractor, with the total costs of replacement, including all materials, equipment, labor, associated mobilization, and traffic control costs paid for by the manufacturer.

Manufacturer's Representative (Printed / Signed)

Title

Date

Phone