

Standard Guidelines for Product Review

Elastomeric Concrete;

Section 00584.10

December, 2016

Elastomeric Concrete – 00584.10

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, flexible header that will withstand traffic impact loads. It should be suitable for use with concrete or asphalt substrates, or steel armor corners. It should also be suitable for use with a variety of joint materials, including silicone, poured filler, neoprene compression seals. All Elastomeric Concrete products shall be capable of withstanding vibrations and / or movement of the bridge during and after cure.

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 Specification 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 3 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.
- Legible copy of the MSDS.
- Detailed installation instructions.
- List of Limitations and Precautions.
- 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 copies of independent test reports that show compliance with the material requirements shown in the Specs. Must be clear, concise, and meet our requirements.

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Submittal Material Requirements

Please 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 – All tests to be conducted at 14 days or specified curing time.

- A. Compressive Strength (ASTM D695): 2200 psi minimum.
- B. Modulus of elasticity (ASTM D695): For Information Only.
- C. 5% Deflection Resilience (ASTM D695): 90% minimum.
- D. Splitting Tensile Strength (ASTM D3967): 575 psi minimum.
- E. Slant Shear Bond Strength (ASTM C882): 450 psi minimum.
- F. Hardness, Shore D (ASTM D2240): 45 minimum.
- G. Minimum Time to Traffic (Manufacturer's Recommendations): 3 hours max.
- H. The material must be compatible with substrate materials that we use, like steel, concrete and asphalt substrates and joint materials (even if made by another manufacturer) used like silicone, hot poured fillers, neoprene compression seals, and polyfoam compression seals.
- I. 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 professional manner.
- J. Materials with minor variations from the ODOT QPL Review Guideline may be considered at the owner's discretion and evaluated as a "Conditional" product.

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2. Binder Properties –

- A. Tensile Strength (ASTM D638): 600 psi minimum
- B. Ultimate Elongation (ASTM D638): 150% minimum
- C. Tear Resistance (ASTM D624): 100 Lb/Inch



DEPARTMENT OF
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Construction Section
800 Airport Road
Salem, OR 97301-4798
503/986-3059

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Specification 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 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 cannot support these specifications for Elastomeric Concrete.

Comments: _____

By: (Company Representative) _____
(Print / Signed)

Company Name: _____

Address: _____

Phone: _____ Date: _____



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Submit all documentation to:

Oregon Department of Transportation
Product Evaluation Coordinator
800 Airport Rd SE
Salem OR 97301-4798