

Standard Guidelines for Product Review

## **MULTI-LAYER POLYMER CONCRETE OVERLAY AGGREGATE**

### **Section 00556.10(b)**

January, 2017

### **Multi-Layer Polymer Concrete Overlay Aggregate-00556.10(b)**

Process - Submit the following:

- [Preliminary Information for Product Evaluation Form](#).
- Independent Test Results showing compliance with Specs listed below.
- Spec Data Sheet.
- Detailed installation instructions.
- List of Limitations and Precautions.

Background - Current MPCO aggregate sources on the QPL were selected based on testing performed by ODOT and completion of field evaluations of the MPCO's condition and performance.

#### Process for QPL Qualification

If an MPCO manufacturer is interested in adding an MPCO aggregate source; send the test results according to Table 1 below and a 5 gallon sample in a labeled manufacturer's container.

#### Process to maintain current QPL Qualification

In order to maintain an MPCO aggregate source on the QPL, the following must be received between June 15<sup>th</sup> and July 1<sup>st</sup> of each year:

- Provide aggregate test results complying with Table 1 below representing the current year's aggregate production.
- A 5 gallon aggregate sample representing the current year's aggregate production to the ODOT Lab.
- If the aggregate testing shows consistent source quality, than after successive 3 cycles/years, this may be discontinued if requested in writing by the aggregate producer. This will be at discretion of ODOT.

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**Table 1**

Sample the furnished aggregate according to AASHTO T 2, and test it by performing sieve analysis according to AASHTO T 27, and additional testing according to the following:

Sieve Size	Percent Passing (by Weight)
#4	100
#8	15-75
#16	0-5
#30	0-1

### **Property**

### **Test Method**

### **Requirements**

Aggregate Absorption

AASHTO T 84

1.25 % max.

Abrasion Loss

ASTM D 7428(Modified)

2.8 % max.

Mohs Hardness

-

6.0 min.

### **ASTM D 7428(Modified)**

Follow ASTM D 7428, except replace Section 8.2 with the following:

<u>Passing</u>	<u>Retained</u>	<u>Mass</u>
4.75-mm(No.4)	2.36-mm(No.8)	150 g
2.36-mm(No.8)	1.18-mm(No.16)	350 g

Report results of 5 sample sets for Abrasion Loss. The average result will be used to determine qualification.

You can review our specifications at: <http://www.oregon.gov/ODOT/HWY/SPECS/pages/index.aspx>

### **Submit all documentation to:**

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