

Standard Guidelines for Product Review

## **Crack Injection Epoxy;**

### **Section 00538.10**

October 19, 2009

## **Crack Injection Epoxy**

Process - Submit the following:

- [Preliminary Information for Product Evaluation Form.](#)
- Independent Test Results showing compliance with Specs listed below.
- Legible copy of the MSDS.
- Spec Data Sheet.
- Detailed installation instructions.
- List of Limitations and Precautions.
- List the name of the recommended crack seal material.

## **Specifications:**

**Moisture Insensitivity:** Products must be able to be used on a damp surface.

## **All tests required for AASHTO M235 (ASTM C 881), Type IV, including:**

- A. Grade 1, maximum viscosity P (Pa•s): 20 (2.0)
- B. Grade 2, minimum viscosity (P) Pa•s: 20 (2.0)
- C. Grade 2, maximum viscosity P (Pa•s): 100 (10.0)
- D. Gel Time, minutes (see \*note below), minimum: 25 (5)
- E. Bond Strength, minimum psi (MPa): 2 days moist cure: 1000 (6.9)  
14 days moist cure: 1500 (10.3)
- F. Absorption, 24 hours, max %: 1
- G. Linear Coefficient of Shrinkage on cure, maximum: 0.005
- H. Compressive Yield Strength, minimum psi (Mpa) 7 days: 10,000 (70.0)
- I. Compressive Modulus, psi (MPa) minimum: 200,000 (1400)
- J. Tensile Strength, 7 days, minimum, psi (MPa): 7000 (50)
- K. Elongation at Break, percent minimum: 1
- L. Heat Deflection Temperature, minimum @ 7 days: 120°F

\*Note - Working Time (Gel Time or Pot Life): At least 25 minutes for all test temperatures listed below (except 5-minute minimum when automatic mixing and dispensing is used). *NOTE:* AASHTO M 235 requires a minimum gel time of 30 minutes. "Gel time" is approximately equivalent to "pot life." The 25-minute pot life limit was chosen because it was the lowest pot life of products commonly available.

## **Submit documentation to:**

Oregon DOT – Construction Section

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.**