

**CALIFORNIA DEPARTMENT OF TRANSPORTATION  
AUTHORIZATION PROCEDURES AND ACCEPTANCE CRITERIA  
FOR ASPHALT PAVEMENT CRACK TREATMENT MATERIAL**



The California Department of Transportation (Caltrans) is compiling a list of authorized flexible pavement crack treatment materials for use in crack sealing or filling. This program will be administered by the Office of Asphalt Pavements. This list is the only list recognized by Caltrans for flexible pavement crack treatment materials. The following procedures will be followed to authorize a crack treatment material for inclusion in the Flexible Pavement Crack Treatment Material Authorized Material List:

I. Manufacturer/Supplier shall provide the following:

A. Submittal Package which includes, but is not limited to:

1. Company's name, address, contact information
2. Name of the product
3. Production location
4. Certificate of Compliance issued by an authorized laboratory certified under AASHTO or Caltrans Independent Assurance program stating the proposed material complies with the tests on the material data sheet
5. Manufacturer's Safety Data Sheet
6. Material Data Sheet that at a minimum contains test results for the following quality characteristics:
  - i. Softening point (min, °C) (ASTM D36)
  - ii. Cone penetration at 77 °F (max) (ASTM D5329)
  - iii. Resilience at 77 °F, unaged (%) (ASTM D5329)
  - iv. Flexibility (°C) (ASTM D3111)
  - v. Tensile adhesion (min %) (ASTM D5329)
  - vi. Specific gravity (max) (ASTM D70)
  - vii. Asphalt compatibility (ASTM D5329)
  - viii. Sieve Test (% passing) (For hot applied crack treatment, dilute with toluene and sieve through a no. 8 sieve. For cold applied crack treatments, sieve the material as-received through a no. 8 sieve. If the manufacturer provides a statement

**CALIFORNIA DEPARTMENT OF TRANSPORTATION  
AUTHORIZATION PROCEDURES AND ACCEPTANCE CRITERIA  
FOR ASPHALT PAVEMENT CRACK TREATMENT MATERIAL**



that added components passed the no. 16 sieve  
before blending, this requirement is void.)

7. List of projects where the product has been used successfully (crack sealing project, transportation project, etc.). Include reports or pictures of application, if possible.
  8. Manufacturer's recommended procedures for use.
  9. Limitation on use (e.g. environmental, overhead and vertical application, horizontal application, etc.)
  10. Shelf life of the product
  11. Storage requirements
- B. Email appropriate submittal form and supporting documents electronically to:  
[New.Products@dot.ca.gov](mailto:New.Products@dot.ca.gov)
- II. Caltrans will evaluate the submittal as follows:
- A. Ensure all required documentation is received.
  - B. Review the technical information provided.
  - C. Review testing data of the crack treatment material to verify compliance with the requirements.
  - D. Inform manufacturer/supplier in writing of the evaluation results.
  - E. Update the Flexible Pavement Crack Treatment Material Authorized Material List, as necessary.
- III. Only laboratories that are participants with valid accreditation from the AASHTO Accreditation Program are recognized.
- IV. The authorization of flexible pavement crack treatment material will expire in 3 years.
- V. To renew, manufacturer/supplier must submit a new package with current information approximately 6 months prior to expiration.
- VI. Caltrans reserves the rights to sample, test and/or remove a product from the list at any time if it fails quality control acceptance testing.