

SECTION 6 SEAL COAT

6-01 GENERAL

This work shall consist of spreading of seal coat materials to existing pavement or surface. Seal coat shall conform to the requirements of Section 37-1, "Seal Coats," of the Caltrans Specifications, except as modified herein.

6-02 MATERIALS

6-02.01 Asphaltic Emulsion

Asphaltic emulsion shall be a quick-setting type, Grade CQS1h, conforming to the requirements in Section 94, "Asphaltic Emulsions," of the Caltrans Specifications.

6-02.02 Water

Water shall be potable, free from harmful salts and of such quality that the asphalt will not separate from the emulsion before the seal coat is in place. No reclaimed water shall be used for seal coats.

6-02.03 Seal Coat Materials

Seal coat materials, undiluted except as noted, shall conform to the following:

<u>TEST</u>	<u>REQUIREMENT</u>
Weight (lbs. per gallon)	9.5 minimum
Nonvolatile component (%)	60 minimum, by weight
Mineral aggregate component	100% passing No. 20 sieve
Working viscosity, diluted 4 parts product to 1 part water – ASTM D562	75 KREBS minimum
Dried film color	Black
Asphalt Content	25-35% of nonvolatiles, by weight

6-03 CONSTRUCTION

Contractor shall remove all weeds and vegetation growing through the pavement surface to be sealed and spray the areas with suitable sterilant chemical. All surface cracks one-half inch (1/2") or wider in width shall be cleaned and filled with asphalt concrete. Cracks one-eighth inch (1/8") to one-half inch (1/2") wide shall be cleaned and filled with crack filler. Cracks smaller than one-eighth inch (1/8") in width shall be cleaned and filled with multiple coats of sealer. The pavement surface shall be clean and free from dirt, oil and grease deposits.

No seal coating work shall be performed when the ambient temperature is below 55 degrees Fahrenheit or above 110 degrees Fahrenheit or within 24 hours of a rainfall, prior or post.

When ambient temperatures are over 80 degrees Fahrenheit or the pavement is excessively aged or porous, the surface shall be sprayed with a mist of water in an amount that will leave the surface damp, but with no visible puddles of water. This procedure is not required if a tack coat is applied. See Section 6, "Asphalt Paving and Surfacing," of these specifications for tack coat requirements.

The seal coat material shall be applied in two applications at a rate of 50 gallons per 1,000 square feet. The seal coat material shall be diluted using water in an amount not to exceed 20 percent of the total volume. Seal coat material shall be homogeneous prior to spreading, with no visible separation of solids and liquids.

Seal coat material shall be applied using a truck-mounted tank or wheeled container in continuous parallel lines and spread by means of brooms or rubber-faced squeegees either by hand or machine and in such a manner as to eliminate all ridges, lap marks, and air pockets. Any valve boxes, manhole covers, etc. shall be protected and kept free of seal coat material.

The surface after the primary application shall be uniformly smooth and show no evidence of coarse or uneven texture. As soon as the primary application is dry to the touch and will not scuff when walked on, another application shall be made. After the second application, the surface shall be allowed at least twenty-four (24) hours for complete curing.

The Contractor shall exercise care to prevent seal coat material from being deposited on other than specified surfaces and shall remove seal coat material from surfaces not designated to be sealed.