



**DESCRIPTION:** **CSS-1** is a cationic emulsion primarily used as a tack coat. The emulsion used as a tack coat (either as is or diluted 50% with water) or fog seal (diluted 50% with water) and applied with a distributor. **CSS-1** consists of specially refined asphalt dispersed in water without the use of clay or similar substances as emulsifying or stabilizing agents. The cationic emulsified asphalt furnished under this specification shall be an emulsion of asphalt cement, water and emulsifying agent. The emulsified asphalt shall be homogeneous. It shall show no separation of asphalt after thorough mixing within 30 days after delivery.

**USE:** **CSS-1** tack coat emulsion is used to bond old pavement to new in many types of applications including: overlays of new pavement to old, pothole patching, joint, curb and gutter interfaces. **CSS-1** is also used to bond speed bumps and parking stops onto existing asphalt pavement.

**PACKAGING:** 5 U.S. gallon pails    55 U.S. gallon drums    250 U.S. gallon palletized poly-totes    Bulk

**COVERAGE:** When used as a primary tack coat, **CSS -1** concentrate can be diluted with 50 % water. Average coverage for tack coat is .10 - .20 GAL/SQ YD.

**PRODUCT PREPARATION:** Stir or re-circulate thoroughly before using.

**SURFACE PREPARATION:** Asphalt preparation includes repairing or removing any surface defects and patching with hot mix or an approved acrylic modified cold mix and allowed to cure. Surface should be clean of any debris and dry.

**APPLICATION METHOD:** **CSS -1** can be applied with any method of hand application and spray techniques. A single coat is sufficient for most applications. If called for, a second coat can be applied after the first coat is dry to the touch. For all uses, the air and pavement temperatures at construction should be sufficiently high to allow the emulsion to fully cure. **CSS-1** should not be applied during rain or imminent threat of rain. Recommended temperatures for application range between 50 - 130°F.

**CURING:** **CSS - 1** can accept foot traffic in as little as ½ hour after application under optimal conditions. At 60°F and 75% humidity, cure time is approximately three hours. Shaded areas may delay curing time depending on nighttime temperature and humidity.

**STORAGE:** Avoid excessive pumping with high shear pumps, especially if the emulsion is cool. Close container when not in use. Do not store containerized sealer in direct sunlight. Should not be exposed to freezing temperatures or above 140°F.

**SAFETY PRECAUTIONS:** Wear approved personal protective gear while cleaning and applying **CSS -1**. Refer to the Material Safety Data Sheet for complete health and safety information.

**PROPERTIES OF CSS -1**

Emulsion type (ASTM D-2937 modified)	Cationic CSS-1 Asphalt Emulsion
Pound per gallon (ASTM D-244)	8.3 to 8.7
Residue by distillation, % by weight	57 % min
Viscosity @ 77 degrees Fahrenheit	20 – 100
Sieve, 20 degree mesh & retained	0.10 max
Penetration of residue, dmm @ 77 degrees Fahrenheit	100 – 250
Boiling point	212
Color	Brown

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