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## 507.00 TACK COATS USING EMULSIONS

### For Dilution

SS-1, SS-1H, CSS-1, and CSS-1H grades are specified. Dilution of emulsion is required if nonuniform tack applications are experienced. Dilute at 1:1 ratio, i.e., 1 gallon emulsion to 1 gallon water.

### Application Rate for Diluted Emulsion

For diluted material, double the rates of undiluted material application. Example: .03 to .06 gal/yd<sup>2</sup> (0.14 to 0.28 L/m<sup>2</sup>) undiluted increased to .06 to .12 gal/yd<sup>2</sup> (.28 to .56 L/m<sup>2</sup>) dilute emulsion.

### Sample for Compliance

Sample emulsion at spray bar of distributor with bar valve in a circulating position, prior to dilution.

### Measurement for Pay

Net liters of diluted emulsion.

Keep in mind, diluted emulsion as supplied normally contains 60% asphalt residue, therefore, a 1:1 field diluted emulsion will contain the minimum of 30% residue (*SSHC Subsection 504.03*).

### Settlement of Diluted Emulsions

Varying residue rates of diluted emulsion may be related to blending of original emulsion or settlement while in storage. To minimize this problem, the following steps are recommended:

- Contractor emulsion delivered to storage should be gently circulated prior to pumping into distributor truck.
- If contractor obtains emulsion directly from terminal, the emulsion should be gently circulated prior to use each day.

Material in a storage tank can be circulated with a large diameter, slow turning propeller, or by pumping from top to bottom. Only a small amount of agitation is necessary.

**Forced air should not be used for agitation since it may cause the emulsion to break.**

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