I. **SCOPE.** This test method covers procedures for determining the ability of an asphalt emulsion to coat the job aggregate and the water resistance of the emulsion-coated aggregate.

II. **APPARATUS.** The apparatus shall consist of the following:

   A. **Balance.** A balance conforming to the requirements of AASHTO M 231, Class G2.

   B. **Pans.** 2 one quart (1 liter) pans with a flat bottom having an inside diameter of approximately 6.5 inches (165 mm) and an inside diameter of approximately 7.5 inches (190 mm) at the top.

   C. **Container.** 1 Quart (1 liter) capacity.

   D. **Spatula.**

III. **SAMPLES.** Representative samples of the job aggregate and the asphalt emulsion are required.

IV. **PROCEDURE.** The percent asphalt emulsion and percent moisture content are based on the dry aggregate weight. The aggregates shall be stored in sealed containers to preserve their moisture content as received.

   A. Determine the moisture content of the aggregate. Discard the sample used for moisture content determination.

   B. If the moisture content of the aggregate is less than one-half of the recommended percent moisture content for mixing as specified by the mix design, add water to bring the moisture content of the aggregate up to a minimum of one-half of the recommended percent moisture content for mixing. Then store the aggregate in a sealed container and allow to season a minimum of 15 hours prior to testing.

   C. Weigh sufficient moist aggregate into a tared pan to yield 500 ± 1 grams of dry aggregate.

   D. Add water to bring the aggregate to the recommended percent moisture content for mixing as specified by the mix design. Mix with spatula.

   E. Add the recommended percent of asphalt emulsions as specified by the mix design and mix with spatula until the aggregate is well coated or for a maximum of 5 minutes whichever comes first.

   F. Observe whether the aggregate is fully coated with the emulsion and rate the coating as good, fair or poor. A rating of good means fully coated by the asphalt emulsion; a rating of fair applies to the condition of an excess of coated area over uncoated area; and a rating of poor applies to a condition of an excess of uncoated area over coated area.
G. Spread the emulsion coated aggregate evenly in the pan and allow to cure for one hour at room temperature.

H. Add 1 Quart (1 liter) of water to the pan.

I. Decant the water from the pan.

J. Repeat Steps H and I four (4) more times.

K. Rate the coating retention as good, fair, or poor, based on the criteria in Step E.

V. REPORT. Report the coating ability as good, fair or poor and the coating retention as good, fair or poor.