

## QUICKLY QUANTIFIES THE ADHESION OF ASPHALT BINDER TO AGGREGATE

The ACT is an innovative method to quickly indicate the adhesion strength of binder to aggregate. The results from this test can be used to indicate if asphalt mixture would pass TSR values (AASHTO T283, ASTM D4867). This quick test can be used during mix design and quality control to determine if the mixture is susceptible to moisture damage due to adhesion failure.

ACT test results are based on subjecting the mixture to the Boil

Test ASTM D3625. The ACT uses a photo detector to measure light reflection from the surface of the asphalt mixture to automatically quantify the change in color. A Color Index is then calculated, which quantifies the amount of color loss in the mixture. A strong correlation exists between Color Index and AASHTO T 283 and ASTM D4867 tensile strength value which can be used to predict passing TSR test results.



The ACT provides agencies a quick test method to account for routine changes that occur during production and design. This test will ensure that mixture formulation and gradation changes do not negatively affect TSR test results and production of moisture sensitive mixtures.

The ACT test method is straight-forward, easy to perform and produces repeatable test results. Now, asphalt practitioners and pavement engineers can predict with certainty the mixtures level of sensitivity to adhesion failure.

### ADVANTAGES

- ▶ Quantify Boil Test (**ASTM D3625**) test results
- ▶ Predicts passing **AASHTO T 283** test results within an hour instead of days
- ▶ Evaluates different anti-strip additives at different concentrations to determine optimum additive content
- ▶ Ensures production changes do not result in adhesion failure in the mixtures or poor pavement quality.
- ▶ Eliminates technical judgment calls for consistent test results
- ▶ Straight-forward, easy to use system to assess binder, aggregate and anti-strip compatibility

## ACT™ Asphalt Compatibility Tester

### SPECIFICATIONS

POWER SUPPLY	110/220 VAC, 15W
OPERATING TEMPERATURE RANGE	65°- 95°F (20°- 35° C)
DIMENSIONS	16" x 16" x 10" (40 x 40 x 25 cm)
WEIGHT	12 lbs (5.5 kg)