

10. TEST FOR CONTROL OF RATE OF SPREAD OF BINDER.

(SP : 11 – 1976)

Object:

To determine the rate of spread of binder by tray test.

Apparatus:

- a) 20cmX20cm and 3cm deep metal trays – 5 nos.
- b) Balance – 0.1gm sensitivity.

Procedure:

Light metal trays of about 20cmX20cm and 3cm deep previously weighed and numbered, are placed at intervals along the road in the path of the binder distributor between the wheel tracks. After the distributor has passed, the trays are removed and wrapped in weighed sheets of paper so that they can be handled stocked and weighed as soon as convenient. The spacing and the number of trays can be varied to suit the circumstances of the particular site, but at least five trays shall normally be used. The tray test gives a measure of the variation in rate of spread along the road and a good approximation to the average rate of spread.

Precautions:

The trays shall be weighed correct to first place of decimal in gram. The maximum longitudinal distribution error shall be within 10% of the specification.

Transverse distribution by the machine can be checked by placing a number of trays to collect the binder sprayer over each 5cm of the width of the spray bar. The variation in transverse distribution shall not be more than 20% from the mean (not counting the extreme 15cm at either side of sprayed area).

APPLICATION OF BITUMINOUS PRIME / TACK COAT

Lab.Ref.No: _____ Date of testing: _____

Location: _____

Tested by: _____

A. Kind of Bituminous Material: _____

B. Application Temperature of Prime / Tack coat: _____

C. Observed Temperature of Prime / Tack coat: _____

D. Unit Weight of Prime / Tack coat: _____

E. Correction Factor at Observed Temperature: _____

F. Speed of Distributor (kmph): _____

G. Height of Spray Bar (m): _____

1. Tray No			
2. Weight of Tray (g)			
3. Weight of Tray + Bitumen (g)			
4. Weight of Bitumen (g) (3 - 2)			
5. Area of Tray (cm ²)			
6. Rate of Spray (g/cm ²) (4 / 5)			
7. Rate of Spray (Kg/m ²) (6 / 0.10)			
8. Rate of Application (L/m ²) (7 / D)			
9. Average Rate of Application (L/m ²)			
10. Governing Specification (L/m ²)			

Remarks : _____

Tested by : _____
For Contractor

Checked by : _____
For Contractor

For Engineer