

Facilities



Transportation Engg. Lab



Materials Testing Lab - II



Materials Testing Lab - I



Pavement Lab

Concrete Durability Testing lab

Inauguration







Water Sorptivity Test

Standard: DI Manual, South Africa / ASTM C 1585

Objective
 To determine the water sorptivity index of the gum concrete sample

Procedure
 Specimens of 75 mm diameter and 25 mm thickness (24 mm thick or 100 mm diameter and 50 mm thickness are prepared by using steel shims). The specimen is dried at 30 °C to 7 days after curing and before testing. The moist mass specimen is allowed to reach to laboratory conditions. After weighing, 90 specimen is placed in sorptivity bath a flow weighing. 90 specimen is placed in saturated solution (hydrochloric acid solution) and the bottom 2 mm of the specimen is submerged. The mass of the specimen is measured at regular time intervals after exposing soaked water from the bottom surface using a clamp scale. The sorptivity is then constant calculated after when the mass is again measured.

Classification Criteria (Alexandru et al., 2008)

Water sorptivity test result	Concrete quality
0.5	Very good
1.0	Good
1.5	Fair
2.0	Poor

Typical Result





Seminar Hall



Department Library