

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 given concrete sample

Procedure
Specimens of 70 mm diameter and 30 mm thickness (DI method) or 100 mm diameter and 50 mm thickness are prepared by coring and slicing. The specimen is dried at 30 °C for 7 days after curing and before testing. The core test sample is allowed to cool in laboratory condition. After weighing, the specimen is placed on supports made a key with test solution (water or saturated calcium hydroxide solution) such that the bottom 2 mm of the specimen is submerged. The mass of the specimen is measured at regular time intervals after exposing excess water from the bottom surface using a damp cloth. The concrete is then vacuum saturated after which the mass is again measured.

Classification Criteria (Alexander et al., 1999)

Water sorptivity test, mm/h	Concrete quality
0.0	Very good
0.5	Good
1.0	Poor
1.5	Very poor

Typical Result





Seminar Hall



Department Library