

LAB MANUAL



CONSISTENCY OF CEMENT

Determination of Consistency of Standard Cement Paste

IS 4321 (Part 4) 1968, IS 5513-1976

Theory

For finding out initial setting time, final setting time and soundness of cement, and strength a parameter known as standard consistency has to be used. The standard consistency of a cement paste is defined as that consistency which will permit a Vicat plunger having 10 mm diameter and 50 mm length to penetrate to a depth of 33±0.5 mm from the top of the mould.

Apparatus

Vicat apparatus conforming to IS 5513-1976, Balance, Gauging Trowel, Stop Watch, etc.

Procedure

- The standard consistency of a cement paste is defined as that consistency which will permit the Vicat plunger to penetrate to a depth 33 mm from the

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Kenneth C. Laudon



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