

EXPERIMENT NO. 1

DETERMINATION OF FINENESS OF CEMENT BY SIEVING

Theory: Cement is obtained by grinding various raw materials after calcination. The degree to which cement is ground to smaller and smaller particles is called fineness of cement. The fineness of cement has an important role on the rate of hydration and hence on the rate of gain of strength and also on the rate of evolution of heat. Finer cement offers a greater surface area for hydration and hence the faster development of strength although the ultimate strength is not affected. Fineness also provides more cohesiveness to concrete and avoid separation of water at the top of concrete (called bleeding). However, increase in fineness of cement increases the drying shrinkage and cracking of the concrete.

Fineness of cement is tested either by sieving or by determination of specific surface using air-permeability method. The sieve method is preferred as it gives the surface area of all the particles in a given quantity of cement. Although determination of specific surface is more accurate, fineness of cement is rarely used except for specific purpose. In concrete, sieving is used commonly used method to determine fineness of cement and is quite good for field works.

Objective: Determination of fineness of cement by dry sieving.

Reference: IS 4031 (Part-1):1988.

Apparatus: IS-90 micron sieve conforming to IS: 460 (Part 1-3)-1985; Weighing balance; Gauging trowel; Brush.

Material: Ordinary Portland cement

Procedure:

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Concrete Laboratory Manual

Emilie Sanchez



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