ABRASION RESISTANCE OF CONCRETE - UNDER WATER METHOD

EIE

Supplies Concrete Abrasion Resistance machines suitable for two test methods

1. Underwater Method.
2. Abrasion Charge Method.

Underwater Method (CA 1311)

Ref. Std.: ASTM C1138

This test method covers a procedure for determining the relative resistance of concrete(including concrete overlays and impergnated concrete) to abrasion under water. This procedure simulates the abrasive action of waterborne particles (silt, sand, gravel, and other solids).

This test method is intended to qualitatively simulate the behavior of swirling water containing suspended and transported solid objects that produce abrasion of concrete and cause potholes and related effects such as the flow of water containing debris over spillways during monsoons. This test method will provide a relative evaluation of the resistance of concrete to such action. The results are expected to be useful in selection of materials, mixtures, and construction practices for use where such action is to be expected. The test method is not intended to provide a quantitative measurement of the length of service that may be expected from a specific concrete.

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GST TIN No. : 24AABCE4018L1ZU
I.T. PAN No. : AABCE 4018L
IEC No. : 0813026598 Dt. 04/03/2014
CIN No. : U29199GJ2004PTC045078
TAN No. : AHME00572F

Steel balls tumbling in a circular orbit in swirling water on the concrete specimen. Suitable for operation on 220V, 50Hz, Single Phase, AC supply.

The equipment consists of the following replaceable parts:

1. Rotating Device - A drill machine with a chuck capable of holding and rotating the agitation paddle under test condition at a speed of 1200 +100rpm
2. Agitation Paddle
3. Test Container-A steel pipe,305 +6mm inside diameter, 450 + 25mm fitted with a watertight steel base is used. A six steel blocks is welded on the base plate to support the specimen
4. Abrasive Charges - 1” dia ball 10no, 0.75” dia ball 35no, 0.50” dia ball 25no 1 Set

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